CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 27, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Sept.				
*27	Rock removal	New London, Ct.	S.	8-30
29	Dredging	Boston, Mass.	S.	9-13
Oct.				
*1	Ditches	Portland, Ore.	P., S. & B. S.	8- 9
*1	Lock	Donaldsonville, La.	P. & S.	7- 5
*1	Sewers	Plainfield, N. J.	P. & S.	9-13
6	Dredging, etc.	Philadelphia, Pa.	S.	9-20
*12	Hospital	New York, N. Y.	P. & S.	9-27
*15	Steel wharf sheds, railways	Manila, P. I.	P. & S.	7-19

*Work advertised in Engineering News.

Oct. 1.Construct. Engr., Washington, D. C.....Aug. 30

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue.

Sept. 27.Light and power plant, Akron, Ohio....Sept. 20
Sept. 29.Electric light plant, Malvern, Ark......Aug. 23
Oct. 1.Light plant, Mobile, Ala.................Aug. 30
Oct. 1.Power-house, Jersey City, N. J.........Sept. 27
Oct. 1.Electric equipment, Omaha, Neb.......Sept. 27
Oct. 1-Hot water heating, Fort McPherson, Ga.Sept. 27
Oct. 2.Apparatus, Fargo, N. Dak...............Sept. 20
Oct. 9.Gas plant, Paulsboro, N. J............Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 10.Light plant, Manassas, Va..............Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Oct. 11.Equipment, Washington, D. C.........Sept. 6

BRIDGES.

Oct. 1.Steel bridge, York, Pa.................Sept. 20
Oct. 1.Steel bridge, Belzona, Miss.............Sept. 20
Oct. 1.Bridges, Wichita, Kan...................Sept. 20
Oct. 1.Steel bridge, Crooksville, Ohio.........Sept. 20
Oct. 1.Bridge, Lexington, Miss..................Sept. 27
Oct. 1.Concrete bridge, Sardinia, Ind..........Sept. 27
Oct. 2.Bridges, Beatrice, Neb...................Sept. 27
Oct. 2.Two bridges, Holton, Kan...............Sept. 27
Oct. 2.Bridge, Newbern, N. C...................Sept. 27
Oct. 2.Bridge, Rome, Ga........................Sept. 6
Oct. 2.Scherzer lift bridge, Peoria, Ill..........Sept. 13
Oct. 3.Approach, Elk City, Ore.................Sept. 6
Oct. 3.Bridges, etc., Bradford, R. I..........Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Oct. 3.Bridge railing, Washington, D. C.......Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 3.Steel bridge, Mitchell, S. Dak........Sept. 27
Oct. 4.Swing bridges, Dayton, Ohio ....Sept. 20
Oct. 4.Bascule bridge, La Porte, Ind. ....Sept. 20
Oct. 5.Steel bridges, Sandusky, Ohio ....Sept. 20
Oct. 8.Bridge, Daggett, Cal.........................Aug. 23
Oct. 10.Concrete, steel bridge, Winchester, Va..Sept. 20
Oct. 11.Bridges, etc., Delphi, Ind..............Sept. 27
Oct. 12.Bridges, Coshocton, Ohio ....Sept. 27
Oct. 15.Revolving bridge, etc., Salem, Mass....Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 16.Bridge piers, etc., Winnipeg, Man......Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 20.Steel superstructure, Winnipeg, Man....Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 25.Bridge, Atlanta, Ga.........................Sept. 13
Sept. 27.Hotel, Mobile, Ala.........................Sept. 20

BUILDINGS.

Sept. 27.Shelter house, New York, N. Y.......Sept. 20
Oct. 1.Public bath, Albany, N. Y...............Sept. 20
Oct. 1.Store, Washington, D. C................Sept. 20
Oct. 2.Officers' quarters, Sacket Harbor, N. Y..Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Oct. 2.Post-office extension, Toledo, Ohio.......Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Oct. 2.Diet kitchens & utility rooms, New York.Sept. 27
Oct. 9.Library, Oberlin, Ohio ....Sept. 20
Oct. 12.Hospital, New York, N. Y...............Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 16.Employees' quarters, Grand Junct'n, Colo.Sept. 20
Oct. 16.Plumbing, Charleston, S. C............Sept. 27
Oct. 19.Quarters, Youngstown, N. Y...........Sept. 27
Oct. 22.Guard-house, Washington, D. C.........Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 23.Mess hall, Washington, D. C...........Sept. 13
Advertised, Eng. News, Sept. 13 to Oct. 18.

WATER SUPPLY AND IRRIGATION.

Sept. 27.Pumping plant, New York, N. Y......Sept. 20
Sept. 28.Cast-iron pipe, Cincinnati, Ohio......Sept. 13
Sept. 28.Filtration machines, California, Ohio...Aug. 23
Sept. 28.Pumping plant, Garden City, Kans......Aug. 2
Advertised, Eng. News, Aug. 2 to Sept. 6.
Sept. 28.Wells, etc., Garden City, Kan...........Sept. 6
Sept. 28.Laying pipe, Cincinnati, Ohio...........Sept. 6
Oct. 1.Irrigation canal, Wenatchee, Wash.......Sept. 13
Oct. 1.Pump, Cohoes, N. Y......................Sept. 13
Advertised, Eng. News, Sept. 13 to 27.
Oct. 1.Infiltration well, Pierre, S. Dak......Sept. 27
Oct. 1.Water supply, etc., Albany, N. Y.......Sept. 27
Oct. 2.Artesian well, Opelousas, La...........Sept. 27
Oct. 2.Water mains, Dunnville, Ont............Sept. 27
Oct. 2.Gravity system, Edinburg, Va..........Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Oct. 4.Water-works, etc., Frederick, Okla......Sept. 20
Oct. 3.Mains, excavating, Rochester, N. Y....Sept. 27
Oct. 3.Conduit pipe, Dalhousie, N. B..........Sept. 27
Oct. 4.Pipe, trenching, etc., Wilkes-Barre, Pa.Sept. 27
Oct. 6.Canals, reservoirs, etc., Chouteau, Mont..Sept. 20
Oct. 8.Water-works system, Atoka, Ind. T....Sept. 20
Advertised, Eng. News, Sept. 20 and 27.
Oct. 10.Pump-house, Fort Snelling, Minn.......Sept. 20
Oct. 10.Water-works dam, Charlottesville, Va..Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 14.Pumping engine, Henderson, Ky........Sept. 20
Oct. 11.Water-works, Holland Patent, N. Y....Sept. 27
Oct. 13.Water-works extension, Caldwell, Idaho..Sept. 27
Oct. 15.Well, pump, El Paso, Tex.............Sept. 27
Oct. 15.Steel tank, Fortress Monroe, Va........Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 11.

SEWERAGE.

Sept. 27.Sewers, Brainerd, Minn.................Aug. 9
Sept. 28.Septic tank & sludge bed, Des Moines, Ia.Sept. 20
Sept. 29.Sewer, Des Moines, Iowa ....Sept. 20
Sept. 29.Drain, Brownsburg, Ind...................Sept. 20
Oct. 1.Sewer pipe, Mt. Vernon, Ill.............Sept. 20
Oct. 1.Storm sewers, Montgomery, Ala........Sept. 20
Oct. 1.Sewers, Narberth, Pa...................Sept. 6
Advertised, Eng. News, Sept. 6 to 20.
Oct. 1.Sanitary sewers, Iowa Falls, Iowa.....Sept. 27
Oct. 1.Sewer pipe, Washington, D. C..........Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 2.Sewers, Washington, D. C...............Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Oct. 3.Sewer, St. Marys, Ohio.................Sept. 13
Advertised, Eng. News, Sept. 13.
Oct. 3.Sewers, Fayetteville, N. C..............Sept. 13
Advertised, Eng. News, Sept. 13 to 27.
Oct. 3.Testing plant and sewers, Baltimore, Md.Sept. 20
Advertised, Eng. News, Sept. 20.
Oct. 3.Conduit, Dalhousie, N. B...............Sept. 27
Oct. 3.Sewers, Mediapolis, Iowa ....Sept. 27
Oct. 3.Sewers, New York, N. Y...............Sept. 27
Oct. 4.Sewers, Buffalo, N. Y..................Sept. 27
Oct. 8.Sewer, Cape May, N. J..................Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 8.Public drain, Brookville, Ind...........Sept. 20
Oct. 8.Sewers, Omaha, Neb...................Sept. 20
Advertised, Eng. News, Sept. 20 to Oct. 4.
Oct. 10.Sewer, Portchester, N. Y..............Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 10.Sewers, Fayetteville, N. C..............Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 18.Sewers, Washington, D. C..............Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.

STREETS AND ROADS.

Sept. 27.Stone steps, New York, N. Y...........Sept. 20
Sept. 27.Grading, New York, N. Y.............Sept. 20
Sept. 28.Asphalt Paving, Des Moines, Iowa.......Sept. 20
Sept. 28.Paving, New York, N. Y...............Sept. 20
Sept. 28.Paving, Altoona, Pa.......................Sept. 20
Sept. 28.Paving, Cincinnati, Ohio ....Sept. 20
Sept. 29.Grading, Terre Haute, Ind.............Sept. 13
Sept. 29.Cement walks, Guelph, Ont..............Sept. 13
Oct. 1.Macadam paving, Jacksonville, Fla......Sept. 13
Oct. 1.Pike road, Clinton, Tenn.................Sept. 13
Oct. 1.Paving, Egmont, Fla.....................Sept. 13
Oct. 1.Paving, Jacksonville, Fla...............Sept. 13
Oct. 1.Gravel road, Valparaiso, Ind............Sept. 20
Oct. 1.Bluestone flagging, Westfield, N. J......Sept. 20
Advertised, Eng. News, Sept. 20 and 27.
Oct. 1.Grading, Stevenson, Wash...............Sept. 20
Oct. 1.Roads, Salem, Ind.......................Sept. 20
Oct. 1.Gravel roads, Rockville, Ind...........Sept. 20
Oct. 1.Paving, Montgomery, Ala...............Sept. 20
Oct. 1.Sidewalk, Chase City, Va...............Sept. 20
Oct. 1.Paving, Ottumwa, Iowa ....Sept. 27
Oct. 1.Paving, Fargo, N. Dak.................Sept. 27
Oct. 1.Gravel roads, Indianapolis, Ind.........Sept. 27
Oct. 1.Paving and sidewalks, New Orleans, La.Sept. 27
Oct. 2.Roads, Bedford, Ind....................Sept. 13
Oct. 3.Gravel roads, Bloomington, Ind.........Sept. 20
Oct. 5.Macadam roads, Decatur, Ind..........Sept. 20
Oct. 6.Road, Cleveland, Ohio ....Sept. 27
Oct. 6.Grading, Cape May, N. J............Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 8.Roads, Wyoming, Ohio ....Sept. 27
Oct. 8.Macadam road, Cincinnati, Ohio ....Sept. 20
Oct. 8.Driveway, Chicago, Ill..................Sept. 20
Oct. 10.Macadam road, Camden, N. J...........Sept. 20
Advertised, Eng. News, Sept. 20 to Oct. 4.
Oct. 10.Crushed stone, Fort Thomas, Ky......Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 10.Grading, Omaha, Neb..................Sept. 27
Oct. 12.Roads, Cincinnati, Ohio ....Sept. 27
Oct. 13.Gravel roads, Terre Haute, Ind.........Sept. 27
Oct. 15.Grading, Fort Mott, N. J...............Sept. 27
Oct. 20.Macadam road, Greencastle, Ind.........Sept. 27
Oct. 31.Roadway, Grand Rapids, Mich.........Sept. 27

MISCELLANEOUS CONTRACTS.

Sept. 27.Rock removal, New London, Conn.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 28.Portland cement, Garden City, Kans....Aug. 9
Advertised, Eng. News, Aug. 9 to 30.
Sept. 28.Dredging, New York, N. Y...........Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 28.Wharf, Jersey Cove, N. S...............Sept. 20
Sept. 28.Concrete wall, Skaneateles, N. Y.......Sept. 20
Sept. 28.Railroad supplies, Panama ....Sept. 20
Sept. 29.Dredging, Boston, Mass...................Sept. 13
Sept. 29.Railway, sleepers, Colchester Coal & Ry. Co. ....Sept. 20
Sept. 30.Drainage, Ft. Snelling, Minn...........Sept. 13
Oct. 1.Irrigation canal, Wenatchee, Wash......Sept. 13
Oct. 1.Ditches, Portland, Ore.......................Aug. 9
Advertised, Eng. News, Aug. 9 to 30.
Oct. 1.Lock, Donaldsonville, La.................July 5
Advertised, Eng. News, July 5 to Sept. 27.
Oct. 2.Railway, Temiskaming & Northern Ontario..................................Sept. 20
Oct. 2.Repairing sea-wall, etc., Newport, R. I.Sept. 20
Oct. 2.Naval supplies, Washington, D. C......Sept. 20
Oct. 2.Engineering supplies, Panama..........Sept. 20
Oct. 2.Castings, New York, N. Y...........Sept. 27
Oct. 3.Ditches, Storm Lake, Iowa ....Sept. 27
Oct. 3.Coal-handling plant, San Quentin, Cal..Aug. 9
Advertised, Eng. News, Aug. 9 and 16.
Oct. 6.Dredging, etc., Philadelphia, Pa.........Sept. 20
Oct. 6.Electric railway, Middleport, Pa.........Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 6.Inclined railway, etc., Niagara Falls, N.Y.Sept. 27
Oct. 8. Drain, Brookville, Ind..................Sept. 27
Oct. 9.Naval supplies, Washington, D. C......Sept. 20
Oct. 10.Drainage, Cisco, Ill.........................Sept. 20
Advertised, Eng. News, Sept. 20.
Oct. 10.Railway, Belgium (Foreign) ....Aug. 30
Oct. 11.Dredging, New York, N. Y...............Sept. 13
Advertised, Eng. News, Sept. 13 to Oct. 4.
Oct. 12.Wharf, dredging, etc., Ft. Hunt, Va....Sept. 20
Oct. 15.Drains, Rio Grande do Sul, Brazil (Forn.).May 31
Oct. 15.Steel sheds, Rys., Manila, P. I.........July 19
Advertised, Eng. News, July 19 to Aug. 30.
Oct. 15.Ry. work, Missouri & N. Arkansas Ry..Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 20.Crematories, Salem, N. J...............Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 16.Dam, canal, excav., Lascruces, N. Mex.Sept. 6
Advertised, Eng. News, Sept. 6 to Oct. 11.
Nov. 15.Dam, excavation, N. Yakima, Wash....Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Nov. 6.Railway, Spain (Foreign) ....Aug. 30
Nov. 15.Canal, dam, tunnels, N. Yakima, Wash..Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Mar. 18 ('07).Tunnel, New Zealand (Foreign)....Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
No date.Jetty plans, estimates, Asbury, N. J....Sept. 27
Advertised, Eng. News, Sept. 27.

CIVIL SERVICE EXAMINATIONS.

Sept. 20.Pitometer Expert, Chicago, Ill...........Aug. 30
Sept. 26.Enginemen, Washington, D. C...........Sept. 20
Sept. 26.Asst. Elec., Engineman, Wash., D. C...Sept. 20
Sept. 26.Steam-Elec. Engr., Washington, D. C..Sept. 20
Sept. 26.Analytical Chemist, Washington, D. C...Sept. 20
Sept. 26.Scientific Asst., Washington, D. C.......Sept. 20
Oct. 1.Construct. Engr., Washington, D. C....Aug. 30
Oct. 11.Inspector Sewer Const., New York, N. Y.Sept. 27
Oct. 17.Bridge Engr., Manila, P. I............Sept. 27
Oct. 17.Prin. Asst. Ch. Engr., Manila, P. I......Sept. 27
Oct 17.Asst. Engr, Manila, P. I...................Sept. 27
Oct. 17.Junior C. E., Manila, P I................Sept. 27
Oct. 17.Master Builder, Manila, P. I..........Sept. 27
Oct. 17.Second Asst. Engr., Manila, P. I.......Sept. 27
Oct. 17.Scientific Asst., Washington, D. C......Sept. 20

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ABBEVILLE & NORTHWESTERN. — George F. McLeod, of Abbeville, Ga., has been appointed to secure right-of-way for this line which will connect with the Southern Railway at Fort Valley, the line to run via Pineview. Application will be made for a charter. Capital is to be $100,000. The incorporators are J. D. Maynard, J. L. Bankston, J. R. Monroe, Hal Lawson, W. L. Harrell, J. H. Hamilton, M. B. Cannon, W. H. Wilkinson, F. C. and T. J. Shackelford, Billups Phinizy, W. B. Fussell, T. R. Moye and C. W. Donaldson, all of Abbeville.

BIRMINGHAM NORTHERN & NAVY COVE.—A press report from Bay Minette, Ala., states that J. D. and W. M. Hand, of Bay Minette, have secured control of the Birmingham Northern & Navy Cove R. R., which is building through Baldwin County, with terminals at Navy Cove. The name has been changed to the Navy Cove Harbor Railroad Co., and active work of construction will begin immediately.

CALIFORNIA NORTHEASTERN.—D. D. Griffiths, Ch. Engr., Weed, Cal., writes us, under date of Sept. 15, that this railroad has been sold to the Southern Pacific Co. As noted on Aug. 30, Mr. Griffiths recently advised us "that this road is to be 62 miles in length, from Grass Lake, Cal., to Klamath Falls, Ore. Contracts have been let to ERICKSON & PETERSON, of Weed, Cal., and to E. B. & A. L. STONE, of Oakland, Cal. Right-of-way is practically all obtained. Surveys have been run. A. H. Naftzger is Pres., 626 Market St., San Francisco."

CANADIAN NORTHERN.—This company is planning to extend its line along the east bank of Lake Manitoba north of Oak Point, Man. The date for receiving bids for the work has not as yet been decided upon. The work will be easy. The line is to have light grades and easy curves.

CANADIAN PACIFIC.—A special meeting of the Board of Directors is to be held to authorize the following: A new road from Petersboro to Victoria Harbor, 96 miles, for a new and better route for grain to tidewater; leases of the Joliette & Brandon, 13 miles; the Walkerton & Locknow, 37 miles, and the Berlin, Waterloo, Wellesley & Lake Huron; construction of Moose Jaw branch, 50 miles; Wayburn branch, 36 miles; Stonewall branch extension, 20 miles.

The Directors of this road have approved the construction of branch lines as follows: Moose Jaw branch from the main line at Moose Jaw northwesterly, about 50 miles; Weyburn branch, from Weyburn, on the northeastern extension of the Souris branch to Stoughton, on the Arcola-Regina extension of the Souris branch about 36 miles; an extension of the Stonewill branch from Teulon northerly about 20 miles; West Selkirk branch from Winnipeg Beach to Gimli, about ten miles; a line from Lauder, on the Souris branch, westerly to Broomhill, about 20 miles, and one from a point near Darlingford, on the Manitoba Southwestern Colonization Railway southerly about six miles.

CARTHAGE & PINEHURST.—Frank Page, Ch. Engr., Biscoe, N. C., advises us that contract has been let to W. B. BONSAL & CO., Hamlet, N. C., for building the proposed line from Carthage to Pinehurst, N. C., twelve miles long. Surveys have been run and capital and right-of-way are secured. T. B. Tyson is Pres., at Carthage.

CHICAGO NORTHWESTERN.—A contract has been let by this company to M. J. PEPPARD, of Minneapolis, Minn., for laying about 70 miles of new track in Wisconsin. The work includes the 10-mile extension east from the Antigo branch. From the end of the new extension a line 30 miles long is to be run in a northerly direction, and one 30 miles to the south. It will take about one year to complete the work, it is said.

CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA.—This company will spend about $500,000 for construction of yards at Janesville, Wis. 300 acres of land have been purchased. C. W. Johnson is Ch. Engr., at St. Paul, Minn.

CINCINNATI, BLUFFTON & CHICAGO.—We are officially advised that this company will let contracts about Oct. 15 for extensions to its line for which plans are now being made. Noted on Aug. 30. John C. Curtis is Gen. Mgr., at Portland, Ind.

COLORADO SOUTHERN, NEW ORLEANS & PACIFIC.—Contract for construction of the Crowley, La., branch line has been awarded to the KENEFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., of Kansas City, Mo.

COLORADO & SOUTHERN.—H. W. Cowan, Ch. Engr., Denver, Colo., states that a preliminary survey is being made for the proposed extension from Martinsen, Colo., southwest 50 miles through the pine forests of New Mexico.

DAYTONA, DE LAND & ST. JOHNS RIVER.—D. D. Rogers, Ch. Engr., at Daytona, Fla., informs us that contracts will be let for building this company's line from Daytona to De Land and St. Johns River connection, 27 miles, when right-of-way is secured. Capital is now ready. Surveys are made. Motive power will be steam for freight service and motor for passenger service. W. J. Morgan is Pres. and A. J. Morgan Secy., both at Bellaire, Ohio.

DENVER TRANSCONTINENTAL. — This company has filed articles of incorporation in Colorado, Utah, Nevada and California for the purpose of building a railroad from Denver, Colo., to San Diego, Cal. The Denver & Intermountain, formerly the Denver, Lakewood & Golden, extending from Denver to Golden, Colo., is to form a part of the line. From Golden the route is up Clear Creek Canyon to Georgetown, over the Argentine Pass to the Vidler tunnel, and by the way of Leadville and Minturn to Salt Lake City. Surveys are said to have been made from Golden to Minturn, Colo., under the direction of M. H. Rogers, of Denver, formerly Ch. Engr. of Denver & Rio Grande R. R. The incorporators are: Wm. A. L. Cooper, of Denver; R. E. Vidler, of Georgetown, and C. A. Baldwin, of Colorado Springs, Colo.

FORT SMITH & WESTERN.—W. C. Crane, Vice-Pres. and Gen. Mgr., Fort Smith, Ark., writes us, under date of Sept. 20, that "nothing definite has been done by our company as to extending the St. Louis, El Reno & Western southwest from El Reno. We are too busy with the reorganization of that property to take up, as yet, the extensions contemplated by us. It probably will be at least 90 days before any preliminary work is done by us." As previously announced in Engineering News, the Ft. S. & W. Co. has purchased the St. Louis, El Reno & Western Ry., 42 miles long, running southwesterly from Guthrie, Okla. The consolidated line will extend southwest and connect with the Kansas City, Mexico & Orient Ry., going eventually to Mexico. It is understood that the taking over of this road is for the purpose of giving a direct outlet for coke in the rapidly increasing market in Mexico.

HARRISBURG & OHIO RIVER.—T. Edwin Bell, of Hammond, Ind., is Pres., and O. W. Ferguson, of Harrisburg, Ill., is Secy. of this company, which has awarded contract to D. E. BAXTER & CO., INC., 27 William St., New York, for constructing its line from Galatia, Ill., to a point, on the Illinois Central R. R., to Rosiclare, Ill., on the Ohio River, 38 miles. The new line will connect the I. C. R. R. and the Cleveland, Cincinnati, Chicago & St. Louis Ry. at Harrisburg, forming a direct line to St. Louis, reducing the distance from Harrisburg about 175 miles. It will run through the richest coal, spar and zinc mines in Southern Illinois. G. S. Brantingham, Mgr. of Construction for the contractors, has completed an inspection of the project. 70-lb. rail and standard ties are to be used.

LAKE SHORE & MICHIGAN SOUTHERN.—Grading is now in progress on this road from Mill Creek Junction, near Cleveland, to Kent, Ohio, 26 miles, it is reported. The CARTER CONSTRUCTION CO., at Cleveland, has the contract for the grading and masonry; the PENNSYLVANIA STEEL CO. has the contract for three steel bridges and the LUCINS ENGINEERING & CONSTRUCTION CO. has the contract for erecting the bridges. S. Rockwell is Ch. Engr., at Cleveland.

MARIANNA, BRINKLEY & WESTERN.—We are officially advised that contracts for building this line will be let in December or January by George W. L. Brown, Gen. Mgr., Box 366, Marianna, Ark. The line will extend from Marianna to Brinkley, 29 miles. Practically all right-of-way is secured. Capital is ready and survey is made. Noted on Aug. 2.

MISSOURI & NORTH ARKANSAS.—Bids are asked until noon, Oct. 15, at office of W. S. Dawley, Ch. Engr. of the ALLEGHENY IMPROVEMENT CO., the general contractor, 820 Security Bldg., St. Louis, Mo., for grading and bridging a portion or all of a 75-mile extension of the M. & N. A. R. R., from Leslie to Pangburn, Ark. (Advertised, Engineering News.)

MINERAL BELT.—The agreement of consolidation made by the officials of the Mineral Belt Ry. Co. and the Wayne Railway Co. has been filed. The Mineral Belt Railway Co. is incorporated under the laws of Alabama for the purpose of constructing a railroad from Florence, Ala., to a point on the Tennessee-Alabama state line towards Waynesboro, Tenn. The Wayne Railway Co. is incorporated under the laws of Tennessee for the purpose of contstructing a railroad from the Tennessee-Alabama state line to Mannia, Wayne county, Tenn. The two roads have been consolidated under the name of the Mineral Belt Railway Co., and the consolidated system is capitalized at $75,000.

NEW YORK, NEW HAVEN & HARTFORD.—In reply to a request for information concerning the Danbury & Port Chester Ry. Co., recently incorporated at Albany, N. Y., to operate a railroad from the boundary line between New York and Connecticut in Westchester County, through the towns of Lewisboro and Poundridge to High Ridge, Conn., E. H. McHenry, Fourth Vice-Pres., writes us that surveys have been made for a line from Danbury to Greenwich, but that construction is not yet authorized.

NEW YORK CENTRAL & HUDSON RIVER.—This company will expend a large amount in purchasing additional rolling stock next year, it is understood. The order for 1907 will include: 20,000 freight cars at $800 each; 200 passenger coaches at $9,500 each; and 400 locomotives at $17,000 each; George W. Kittredge is Ch. Engr., Grand Central Station, New York.

NORFOLK & WESTERN.—Company will hold a stockholders' meeting on Oct. 11 to approve an issue of $34,000,000 of common stock, which will increase the capital to $100,000,000; also to approve an issue of bonds, convertible into stock, of an equal amount. It is announced that the bonds will be used to provide for various branch extensions to coal mines and other improvements. C. S. Churchill is Ch. Engr., at Roanoke, Va.

NORTHERN PACIFIC. — This company, it is reported, has let a contract to DEEKS & DEEKS, of St. Paul, to straighten its line from Livingston, Mont., west to Bozeman tunnel, eleven miles. The line is to be carried over a new route, shortening the distance by about 1,000 ft., reducing the grade and eliminating curves.

PENNSYLVANIA R. R.—The New York "Commercial" on Sept. 24 stated that contract is placed by the Pennsylvania for 12,400 freight cars involve an expenditure of $15,000,000. The award in detail is as follows: PRESSED STEEL CAR CO., of Pittsburg, 4,000 hopper cars, 2,000 gondola cars, 800 box cars and 400 flat cars; CAMBRIA STEEL CO., 3,000 hopper cars, STANDARD STEEL CAR CO., 2,100 gondola cars. The contracts specify that the delivery of the equipment shall begin in April next, and continue until late in the summer. The Pennsylvania Railroad has ordered this year about 35,000 freight cars, which are being delivered at the rate of 100 a day. More than 18,000 have already been delivered and placed in active service. It is understood that an order for 500 steel passenger coaches to cost $5,000,000 will be placed soon. Three experimental cars built in the company's shops have not met in many details the requirements of the motive power officers, and by request designs have been submitted by the larger car building companies. An officer of the Pennsylvania, in discussing this matter, said: "We want the steel cars to be habitable. It must be remembered that steel materials make the cars safe and durable rather than comfortable. We have asked the car builders to meet us with drawings of their best ideas and as soon as we reach a uniform plan it is probable that prices will be asked for the erection of a large number of these cars. In the purchase of new equipment requiring an expenditure of $25,000,000 for New York Central lines, contracts have been awarded to the Pullman and the American Car & Foundry companies for 4,000 each, to the Standard Steel Car Co. for 5,300, and to Barney & Smith for 2,000."

RALEIGH & PAMLICO SOUND.—A contract is reported let by this company to JOHNSON & GRAMMET BROS., of Alton, Ill., for building 67 miles of its proposed road from Raleigh, N. C., east to Pamlico Sound. The contract which amounts to about $1,000,000, must be completed by June 15, 1907.

SOUTHERN RY.—Surveys have been made for a line between Dry Fork and Danville, Va., but no decision reached as to building. W. H. Wells is Engr. of Construction, Washington, D. C.

TEXAS.—Citizens of Fredericksburg, Tex., it is reported, offer a bonus of $50,000, besides right-of-way and depot site, for any railroad that will build a line to the town. There is some expectation that the Brady extension proposed by the Frisco system will come through Fredericksburg.

WYOMING CENTRAL.—E. H. Fourt, Attorney, Lander, Wyo., writes us that "this company will change its title and the work is delayed on account of the opening of the Indian reservation having been delayed, and the fact that even now we will not be permitted to go upon reservation until Oct. 15. Then a new name will be given the company as soon as the Indian allotments have been approved and the eastern representatives of the company tell me that they will be ready to go ahead with the construction work."

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME. — The State Railroad Commissioners on Sept. 15 approved the articles of association of the Augusta, Oakland & Waterville Street Railway Co. The proposed road will be constructed from Oakland along Messalonskee Pond to the highway at West Sidney, and then extend to the Bond Brook Road, in Augusta. The distance will be 18 miles. The directors of the proposed road are: Amos F. Gerald and Edwin J. Lawrence, of Fairfield; A. B. Page, of Shawmut, and Cyrus W. Davis, of Waterville. John A. Jones, of Lewiston, is Ch. Engr.

RUMFORD FALLS, ME.—The State Railroad Commissioners on Sept. 14 approved articles of association of the Rumford Falls & Bethel Street Railway Company to construct, maintain and operate a street railroad in and through Mexico, Rumford, Hanover, Newry and Bethel by electricity or compressed air. The length of the road will be about 30 miles. The capital stock is $120,000. The directors are: Elliott W. Howe, Everett K. Day, Orville J. Gonya, William H. Ray and Dennis J. McCoy, all of Rumford. John A. Jones, of Lewiston, is Ch. Engr.

PITTSFIELD, MASS.—In an order issued by the State Board of Railroad Commissioners, the Berkshire Street Railway Co. is given until Jan. 1, 1908, to abolish the grade crossing of its railway with the railroad in the city of Pittsfield. This company is controlled by the Consolidated Ry. Co., of New Haven, Conn. Henry Gough is Ch. Engr., at Pittsfield.

NIAGARA FALLS, N. Y.—Bids are asked until noon, Oct. 6, by Edward H. Perry, Supt., Niagara Falls, for the construction work of a new station and the reconstruction of the Inclined Railway at the N. Y. State Reservation, Niagara Falls. Drawings and specifications may be consulted and blank forms of proposals obtained at the office of the Superintendent of the Reservation, or by application to G. L. Heins, State Arch., Capitol, Albany, N. Y.

PEEKSKILL, N. Y.—John S. Ladd, Pres. of the Putnam & Westchester Traction Co., Peekskill, informs us that this company will build an electric railway from Peekskill to Oregon, N. Y., four miles. Right-of-way is mostly obtained and surveys are made. Contracts will be let probably in October of November.

DUNKIRK, N. Y.—FITZGERALD & HURLEY, of Fredonia, N. Y., have been awarded the contract for the construction of all the street railroad tracks of the proposed Dunkirk Belt Line, to be built by the Dunkirk St. R. R. Co., which runs on paved streets in this city, and for the reconstruction of all the track of present Main Road line and Dunkirk and Fredonia R. R. line, which runs in streets already paved. This includes the taking up of the present track, nearly three miles in all, between the two places, and several hundred feet of the Main Road line in Main St., relaying new ties on a concrete foundation, and new 62-foot rails seven inches high, and repaving between the rails and two feet outside thereof. It also includes the new construction of the Lion St. and Lincoln Ave. line in Dunkirk. The contract is sublet by the L. G. MYERS CONSTRUCTION CO., of Chicago, which has a contract from the Sheehan-Mayer syndicate for the entire work. The entire amount involved is said to be approximately $100,000. William Schwertfager is Supt. of the Dunkirk & Fredonia R. R. Co.

MIDDLEPORT, PA.—Bids are asked until Oct. 6 by J. G. White & Co., at their office at Pottsville, Pa., for grading and roadbed construction for eight miles of electric railway from Middleport to Tamaqua, Pa. Bids will be received at a later date for grading and roadbed construction of an electric railway to be built from Pottsville to Shenandoah. Intending bidders are requested to look over the two lines. (Advertised, Engineering News.)

NORFOLK, VA.—H. H. Tu[illegible], Engr. of Construction for the American [illegible]rail Co., 823 Calvert Bldg., Baltimore, [illegible], advises us that this company will build a portion of the intramural system at the Jamestown Exposition. Right-of-way is obtained. Contract for cars has been awarded.

FAYETTEVILLE, N. C.—Thomas H. Sutton, Atty., informs us that surveys have been partly made for proposed line to be built by the Fayetteville St. Ry. Co. It will be about four miles in length and will extends to suburbs and cotton mills. Right-of-way is partly secured. W. E. [illegible]ndley is Pres. and W. D. McNeill is Gen. Mgr.

ATLANTA, GA.—N. P. Drewry, Griffin, Ga., an incorporator of the Atlanta, Griffin & Macon Interurban R. R. Co., advises us that this company's line will be about 90 miles long, extending to Griffith, Spalding and Macon. Right-of-way is being obtained. Incorporation, etc., was noted in issue of Sept. 6.

GADSDEN, ALA.—A meeting of the stockholders of the Alabama City, Gadsden & Attalla Street Ry. Co., has been called for Oct. 15, in Birmingham, at which time a proposition will be entertained to issue $300,000 of first mortgage 5% bonds to make increases in road and equipment. A line is contemplated to Noccalula Falls, several miles from Gadsden. John D. Gabouny is Mgr.

JACKSON, MISS.—The Claremore R. R. Co. has been incorporated in Mississippi to biuld an electric line from Jackson west to Clinton, and thence to Coopers Well, 16 miles. The company is planning to eventually extend the line to the Mississippi River a total distance of 43 miles. The line will cost about $1,200,000 to build and equip. The incorporators are: R. K. Jayne and M. Culberson, of Jackson; and M. Walker, of Brandon, Miss.

ELYRIA, OHIO.—The Oak Point & Elyria Railway Co. has been incorporated, with a nominal capital stock of $2,000. The plans of the company include a nelectric line from Elyria to Amherst and thence to Oak Point. Incorporators are: E. S. Cook, F. S. McGowan, A. R. Manning, M. Dicke and M. L. Fowles, Cleveland attorneys, who are supposed to represent local interests.

MANSFIELD, OHIO.—The Mansfield & Southern Traction Co., of Mansfield, has been incorporated by R. T. Gage, H. F. Parmenter, H. A. Beckett, M. L. McCraith and M. R. Moffatt. The temporary capital stock is $1,000. The company proposes to build a line from Mansfield to Mount Vernon, a distance of about 35 miles.

SPRINGFIELD, OHIO.—The Indiana, Columbus & Eastern Traction Co. has announced its intention to ask for a renewal of its franchises in Springfield. This company succeeded the Columbus, London & Springfield and the Dayton, Springfield & Urban lines, operating into Springfield, and it desires a 25-year blanket extension of their grants. It states that it is the desire to double-track the line between Springfield and Dayton, including the tracks in the city, to extend the line now operating from Springfield to Bellefontaine, from the later city to Lima, and to erect a $50,000 terminal station in Springfield, which may be used by other traction companies entering the city if they desire to make arrangements for its use.

EVANSVILLE, Ind.—At a recent meeting of the stockholders in the Evansville & Cannelton Electric Railway Co., the following officers were elected: F. W. Cook, Pres.; W. H. McCurdy, Vice-Pres.; M. S. Sontag, Secy. These officers with C. C. Tennis, G. A. Cunningham, C. H. Battin and Gus Mulhausen, constitute the board of directors. The directors ordered an immediate survey of the new lines, and hope to get the construction work well under way before winter. Noted on Sept. 20.

INDIANAPOLIS, IND.—It is announced that the steam railroad companies demand of the city an additional sum to complete proposed track elevation. It was agreed that the city should pay one-fourth of the cost, which was estimated at $100,000. However, the work will cost $130,000. The city has paid $25,000, and the City Attorney holds that the city is not legally liable for any additional sum, but adds that perhaps it will be advisable to pay the demand. The officials of the Indianapolis, New Castle & Toledo Electric Ry. Co. have refused to pay $5,000 which it agreed to pay toward the track elevation, on the ground that the clearance is only 14½ ft., whereas it was to have been 16 ft. The franchise granted this company contains the company's agreement to pay the $5,000, but does not state that the clearance shall be 16 ft. The Mayor says the company will not be permitted to enter the city until the $5,000 is paid. C. S. Hernly is Vice-Pres. and Gen. Mgr., of the I., N. C. & T. Co., at New Castle, Ind.

GRAND RAPIDS, MICH.—We are officially advised that the Grand Rapids, Hastings & Battle Creek Suburban Ry. Co. has engaged D. C. and W. B. Jackson, of Madison, Wis., as engineers for the electrical portion of construction of its projected line and J. J. McVean, of Grand Rapids, Mich., as engineer for roadbed construction. The railway will extend from Grand Rapids to Battle Creek, via Hastings, 54 miles in length. Survey is made but right-of-way is not entirely obtained. Noted on Sept. 6.

JONESBORO, ARK.—H. A. Brown, 115 Culberhouse St., states that he wishes to be placed in communication with parties who can furnish equipment for a 5-mile single-track electric railway.

McCRORY, ARK.—Capital has been secured for constructing the McCrory Tramway & Transfer Co.'s line from McCrory to Jelk, two miles, we are officially advised, but that no other steps have been taken. C. Hailey, McCrory, is Pres.

ORR, IND. T.—Isaac Roberts, Pres. of Red River Valley Power & Traction Co., advises us that company will only handle preliminary work until next year, when contracts for construction of its proposed electric railway will be let. The line will be about 60 miles long. Partial surveys are made. Noted on Aug. 9.

MOUNT PLEASANT, TEX.—The Hoffman Head & Staving Co. may build a tram steel railroad, 16 miles long, in connection with its proposed factory at Mount Pleasant. Frank Goodrich, of Dexter, Mo., is Pres. of the company, and John V. Moore, of Mount Pleasant and Dallas, is Mgr.

SEATTLE, WASH.—Municipal ownership of street railways, as represented in a proposal to bond the city of Seattle for $4,272,000, of which $1,172,000 was to be charged against the general funds of the city and the rest to be an indebtedness against 20% of the gross receipts of the system when in operation, was defeated at a special election held on Sept. 13. Out of a total of approximately 13,000 votes cast, municipal ownership lacked 935 of a plurality. Registration for the special election was 23,000. The weather was inclement, but the working classes voted heavily. It was proposed to build a municipal street railway system that would parallel and extend beyond the lines of the Seattle Electric Co.

SAN FRANCISCO, CAL.—The Mount Tamalpais Railway will be greatly improved within the next year. At the last meeting of the directors it was decided to build a branch line from the "double bow knot" to Redwood canyon, a distance of about seven miles, and at Redwood canyon to erect a new hotel to cost about $60,000 or more. The branch line will cost in the neighborhood of $100,000. It will be built down the west side of Mount Tamalpais and will extend to the mouth of Redwood canyon. C. F. Runyon, H. F. Woods, C. B. de Fremery and others are directors.

STOCKTON, CAL.—E. P. Hilborn, Gen. Mgr., of Central California Traction Co., advises us that this company plans to build a 16-mile electric railway from Stockton to Lodi, Cal. Surveys are made and right-of-way and capital are secured. Grading is light surface work with four small bridges. W. J. Bartnett, Safe Deposit Bldg., San Francisco, is Pres., and R. S. Masson is Ch. Engr., at Stockton. The company will do its own construction. Contract for electric equipment has been awarded to the GENERAL ELECTRIC CO., and contracts for cars to the AMERICAN CAR CO.

HAMILTON, ONT.—We are officially informed that NICHOLSON & RILEY, of St. Catharines, Ont., have been awarded contract for building the Brantford & Hamilton Elec. Ry. Co.'s line from Hamilton to Brantford, 22 miles. Surveys are made, capital is secured and right-of-way is obtained. Noted on Sept. 13.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—FRED W. BOLSTER, of Milo, has been awarded the contract to build the new power station for the Milo Electric Light & Power Co., on the site formerly occupied by Pierce's saw mill.

PORTLAND, ME.—The contract for installing the heating, lighting and power plant in the new county court house has been awarded to the BUERKEL CO., of Boston, for $59,997.50.

TEMPLETON, MASS.—The contract for erecting the municipal electric light plant has been awarded to F. E. LEY & CO., Springfield, Mass.

MERIDEN, CONN.—The C. F. WOODING CO. has been awarded the contract for the joiner and mason work at the electric light station on the Quinnipiac River, at $3,940.

CHENANGO FORKS, N. Y.—Peters Bros. have decided to construct a dam and power house on Chenango River at this place.

COHOES, N. Y.—The Hudson River Electric Co., of Glens Falls, has purchased property here, and will erect a transformer station to cost about $50,000. C. H. Peddrick, Jr., is Pur. Agt.

CHARLOTTE, N. Y.—The village board is contemplating raising between $15,000 and $20,000 to provide for improvements in its water system and electric lighting plants. W. W. Wright is Supt.

ROCKAWAY, N. J.—It is reported that the Rockaway Electric Light & Improvement Co. will spend about $14,252 in making improvements to its plant. S. B. Libby is Mgr.

BELVIDERE, N. J.—The Portland (Pa.) Power Co. has been incorporated with a capital of $500,000. It is reported that the company will tap the Delaware River a short distance from here carrying the current through a canal to Four Rift, a distance of four miles, where it will erect a power plant for trolley and electric light purposes. The incorporators are Henry D. McDonald, Lewis H. Nickolos, Jennie Killian, Jacob V. Carter and Dayton Brugler.

JERSEY CITY, N. J.—Bids are asked by the New York & New Jersey Tunnel Co. for the erection of a power house to be built on the block bounded by Washington, Green Bay and First Sts. Robins & Oakman, 27 East 22d St., New York, are Archs.

PAULSBORO, N. J.—Bids are asked by the Council of the Borough of Paulsboro until [illegible] p. m., Oct. 9, for erection of a gas plant. Charles M. Gwilliam is Boro. Clk. (Advertised, Engineering News.)

DALTON, PA.—S. SYKES & SON, 1235 Pennsylvania Ave., Scranton, Pa., have received the contract for a brick and steel power-house of fireproof construction for the Northern Electric Street Railway Co.

PHILADELPHIA, PA.—The Philadelphia Rapid Transit Co. has awarded a contract to the WEBBER STEELE CO. for the erection of a reinforced concrete smokestack for the power house on Beach St. and Delaware Ave. It will be 175 feet high.

READING, PA.—The BROWN ENGINEERING CO. has been awarded the contract to erect the power plant of the glove factory to be erected by the Nolde & Horst Co., on McKnight St.

SMYRNA, DEL.—Bids are asked by the Smyrna, Kent County & Delaware R. R. Co. for the erection of a power house, car barn and machine shop near here. It is to be a 1-story brick building. New equipment will be required.

BRISTOL, VA.—The installation of electric light plant is being considered. W. L. Rice is Mayor.

BOYDTON, VA.—The development of the water power at Eagle Point Falls on Roanoke River, six miles from Boydton, is reported as under consideration, and it is estimated that about $1,000,000 will be required to carry out the project. Judge Henry Wood, of Clarksville, Va., is said to represent the capitalists who contemplate the enterprise.

WISE, VA.—Town will issue $30,000 of bonds to improve water-works and electric light plant.

FAYETTEVILLE, W. VA.—R. J. Frazier has been awarded the contract for the construction of the 2-story stone power house, 45 × 75 ft., by the Fayette & Fayetteville Electric Ry. Philip Kanard is Engr.

CHARLESTON, W. VA.—The Columbia Corporation has been incorporated with a capital of $11,000,000. The incorporators are E. B. Enslow, R. M. Baker, C. L. Porter, S. H. Moore and R. S. Douthat.

WHEELING, W. VA.—National Telephone Co. has let contract for a $40,000 switchboard to be installed in central exchange, which will give a capacity of 6,000 phones.

ANDERSON, S. C.—W. M. MULKEY has been awarded the contract to build substation for the Savannah River Power Co., which is developing the water power of the Savannah River near Greggs Shoals for transmission by electricity.

CAMDEN, S. C.—The Camden Water, Light & Ice Co. will erect a new power house. A. A. Gulbert, Racine, Wis., is Arch.

DE FUNIAK SPRINGS, FLA.—The Mayor and Council have selected Wm. T. McCormick as engineer to prepare plans and specifications for light plant, water plant, sewer line and a public school building at DeFuniak Springs. The total expenditure will be about $50,000.

ORLANDO, FLA.—South Florida Gas & Electric Light Co. will build two benches of three retorts each for the manufacture of gas from peat. Orlando Water & Light Co., L. L. Payne, Gen. Mgr., owners.

BATON ROUGE, LA.—New Orleans & Baton Rouge Electric Railroad Co., which will operate electric railroad between Baton Rouge and New Orleans, La., will build plant, furnishing power to railway and to enterprises along the line. H. V. Melly is Agt.

NEW ORLEANS, LA.—Bayou Teche Railway & Light Co. has been chartered with $500,000 capital stock to erect electric light and power plant, etc. Paul M. Schneidau is Pres.; Gasper Trumpy is Vice-Pres.; Frank A. Daniels is Treas., and James W. Porch is Secy.

COAL CREEK, TENN.—W. M. Banks, D. C. Taylor and others have purchased site on which to erect electric light plant.

COLUMBUS, OHIO.—Samuel Wyer, Engr., has made plans for a power house and machine shop for the Columbus & Hocking Coal & Iron Co., $100,000.

HAMILTON, OHIO.—The voters of Hamilton voted by a majority of 10 to issue $350,000 of bonds for the purpose of rebuilding the municipal water, gas and electric light plants.

WASHBURN, ILL.—A. M. Searls, of Chicago, has been granted a franchise to build, operate and maintain an electric light plant in this city.

METAMORA, ILL.—Mayor Irving and other leading citizens have interested themselves in the formation of a company for the construction of either a gas or electric lighting plant for the city.

DUBUQUE, IOWA.—The town is about to install a new electric light and a water plant.

MANHATTAN, KAN.—An electric lighting and steam heating plant will be installed at the State Home for the Orphans and Aged.

SEDAN, KAN.—C. D. Inglefield, local representative of John H. Heckman & Co., of Coffeyville, Kan., has asked for a franchise to erect an electric light plant in this city.

MANHATTAN, KAN.—A committee from the Manhattan Commercial Club has been appointed to investigate the possibilities of damming the Blue River at Rocky Ford, four miles north of this city, for the purpose of creating power to be utilized in operating an electric plant to furnish electric power in this city.

OMAHA, NEB.—Bids are asked until 10 a. m., Oct. 1, by Major M. Grey Zalinski, Constructing Q. M., Army Bldg., Omaha, for furnishing and installing transformer, service wires and watt meter for electric lighting the post exchange and gymnasium at Fort Omaha.

THERMOPOLIS, WYO.—The Asmus Boysen Mining Co. has been granted a permit for the diversion of the water of the Big Horn River for power purposes. The company will erect a large reinforced concrete dam, which, it is expected, will develop 4,000 HP.

FORT SMITH, ARK.—It is reported that the St. Louis & San Francisco R. R. Co. will erect electric light plant to supply lights to its depot, shops and yards. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.

ABILENE, TEX.—Abilene Gas Light, Fuel & Power Co. has been organized with $50,000 capital stock by J. M. Radford, W. M. Lacy, W. A. Minter, Jr., Morgan Weaver and W. H. McGoldrick.

MARSHALL, TEX.—The Marshall Gas Co. has been chartered by S. S. Hunter, Pres., and W. B. McCormick, Secy., for the purpose of piping gas from the fields near Shreveport to this city, and to manufacture and distribute artificial gas, electricity and power.

DURANGO, COLO.—It is reported that the Standard Light & Power Co. probably will receive bids sometime this fall for the contemplated improvements which will cost about $350,000. S. W. Henderson is Gen. Mgr.

CLEAR CREEK, COLO.—The plans of the management of the Clear Creek & Gilpin Mining, Drainage & Transportation Tunnel Co., in Colorado, call for the erection of a new power house 500 ft. below the site of the present mill. Bids have already been received for the construction of a pipe line 48 ins. in diameter and 3,750 ft. long to supply the water power for the turbines and dynamos.

SPOKANE, WASH.—It is reported that H. M. Dewey and his associates will develop 35,000 HP. in that county on the Sinlahekin River, where they have filed a water right; that they will build 35 miles of electric road through the county and erect a smelter, probably near Conconully. The electricity developed will also be used for lighting and in operating mines. They will first develop 5,000 HP.

FRESNO, CAL.—Jas. T. Boyd, of San Francisco, is planning the erection of a steam power plant in Fresno in competition with the San Joaquin Light & Power Co.

SANTA BARBARA, CAL.—The Merchants' Mutual Light & Power Co. will issue bonds for the sum of $75,000 to provide means for improvements.

GRASS VALLEY, CAL.—It is reported that the City will erect and install a municipal lighting plant at a cost of $80,000.

COTTONWOOD, IDAHO.—An electric light plant will be erected here at a cost of $12,000. Fred Erskine is Engr.

BOISE, IDAHO.—Bids are asked by W. H. Gibson, Secy. of State Bd. of Prison Comrs., for installing a light and pumping plant at the state penitentiary.

KENORA, ONT.—Contracts have been made, it is stated, by the Town Council for the supply of 3,000 HP., though provision is made for 6,000 HP. when required. Of the amount of power contracted for the Maple Leaf Milling Co. has agreed to take 1,000 HP. at $10 a HP. per annum. For the town's purpose 600 HP. will be required.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Bids are asked until 11 a. m., Oct. 15, instead of Oct. 8, as first advertised, by the County Commissioners for building a new bridge over the Danvers River between the cities of Salem and Beverly, Mass. The work will consist of furnishing, complete, one steel revolving draw span, 182 ft. long; a pivot pier of concrete; a wooden fender pier; a pile bridge, 1,125 ft. long; two abutments, and the filling and roadway of approaches. The depth of water in the channel is about 16 ft. at low tide and 25 ft. at high tide. More than one-half of the pile structure is over flats uncovered at low tide. Bids will be received for the whole work, or separate bids will be received for (a) the pile structure with abutments and approaches, and (b) for the draw span and its piers. Noted last week. James P. Hale, Clk. (Advertised, Engineering News.)

HOOSICK, N. Y.—A special meeting of the Highway Commissioners was held on Sept. 15 to receive bids for the proposed new iron and steel bridge over the Shingle Hollow stream, for which the taxpayers, at a recent special election, voted a sum not to exceed $17,000. Plans and specifications have been prepared by Prof. Lawson, of the Rensselaer Polytechnic Institute of Troy. Bids were received as follows: United Construction Co., $22,000; John H. Luther, North Adams, $17,385; Canton Bridge Co., $32,693; Michael Fitzgerald, Hoosick Falls, $13,979. Noted on Sept. 13.

NEW YORK, N. Y.—The Municipal Art Commission at a meeting on Sept. 18 approved the Long Island City approach for the new Blackwell's Island bridge, and the work can now be started. The approach will be of steel and granite, with elegant Gothic archways of masonry and steel. The commission also gave its approval of the groups for the exterior pedestals, now standing empty near the new Hall of Records. These models met with disapproval at the last meeting because only one of each group was exhibited. All the models of each group were shown yesterday. The groups are allegorical representations of the evolutions of New York City, and will be of heroic proportions. Howard Mansfield is Secy. of Comn.

BUFFALO, N. Y.—Bids probably will be readvertised by Department of Public Works for new River St. bridge superstructure.

LIVONIA, N. Y.—The State Railroad Commission recommends that the West Ave. grade crossing of the Rochester division of the Erie R. R. be abolished and that a steel bridge be erected north of the present crossing.

JERSEY CITY, N. J.—The Hudson County Board of Freeholders has adopted plans for the viaduct between Jersey City Heights and Hoboken.

TRENTON, N. J.—NEWTON A. K. BUGBEE has been awarded contract by Board of Freeholders for the construction of a combination street and concrete bridge on the Trenton and Princeton turnpike over Shipesaukin Creek, near Princessville, in Lawrence Township. The contract price is $16,900.

READING, PA.—H. F. Livingood, County Controller, writes us that no contract was awarded for bridge over Willard Creek, for which bids were advertised until Sept. 21. The old bridge probably will be repaired.

SCRANTON, PA.—The contract for constructing a reinforced concrete bridge over Lackawanna River at Seventh Ave. is reported to have been awarded by City Council to F. J. HOWELL & CO., for $8,178. Bids received on Sept. 10.

WILKES-BARRE, PA.—At a recent meeting of the bridge committee of councils, representatives of the various railroad companies agreed to appropriate $50,000 for the construction of the East End bridge. It was decided to start the preliminary work by Oct. 1, and the architect was instructed to revise the proposed plans in order that the work will not be delayed. Total cost will be about $80,000. Noted on Sept. 13.

WASHINGTON, D. C.—Bids were opened Sept. 15, at the office of the Commissioners of the District of Columbia, for erecting a steel girder bridge over Rock Creek, on K St., between 28th and 29th Sts., N. W., Washington. The bids were as follows: Jas. J. Owen, 335 Delaware Ave., N. E., Washington, $32,500 for bridge complete; $2,000 for temporary bridge. Penn Bridge Co., Bond Bldg., Washington, $36,900 for bridge complete; $2,500 for temporary bridge.

Bids are asked by the District Commissioners until noon, Oct. 3, for furnishing railing for Connecticut Ave. bridge. (Advertised, Engineering News.)

WILMINGTON, DEL.—The Baltimore & Ohio Railroad Co. is making preparation to replace the wooden bridge over the railroad at Seventh St. with a steel structure, and has submitted the plans to Chief Boughman, of the City Surveying Department.

SCOTTSVILLE, VA.—The ROANOKE BRIDGE CO., of Roanoke, Va., has contract at $22,000 for the construction of bridge across the James River, connecting the Counties of Albemarle and Buckingham.

PARKERSBURG, W. VA.—We are officially advised that bids were received on Sept. 6 by the Parkersburg & South Side Bridge Co., Parkersburg, for constructing piers 1, 2, 3 and 4 on Little Kanawha bridge for the Parkersburg, Marietta & Interurban Ry. Co. Contract was awarded to the BRADY CONSTRUCTION CO., of Parkersburg.

The Parkersburg & Ohio Bridge Co., of Parkersburg, has applied to the Secretary of War for permission to erect a bridge across the Ohio River at Parkersburg. The object, it is understood, is to run an electric railroad line across the bridge. The matter was taken under consideration, and will be passed upon by a board of army engineers to be appointed to consider it.

NEWBERN, N. C.—Bids are asked until noon, Oct. 2, by C. E. Foy, Chn. Board County Comrs., for erecting steel highway bridge across Neuse River near Maple Cypress, N. C., without approaches.

FAYETTEVILLE, N. C.—It is reported that the Atlantic Coast Line Railroad will erect steel bridge over the Cape Fear River, replacing present structure. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

LEXINGTON, MISS.—Bids are asked until Oct. 1 by the Board of County Supervisors, Parham Williams, Clk., for constructing a bent bridge, about 135 ft. long, across Lamberth Bayou.

MEADVILLE, MISS.—The Board of Supervisors of Franklin County has ordered that the proposal be passed upon next month to issue bonds to the amount of $60,000 to build bridges across the following streams: One across the Homochitto River at Pine Bluff; Homochitto River at the Cassedy Ford; Middle Fork Creek at Hamburg and Meadville Ford; Middle Fork at Hamburg and Meadville Ford; McCall Creek at the Judge Magee old place. C. A. Prichard is Clk.

NEW ORLEANS, LA.—The Mayor is reported to have signed the ordinance providing for the erection of a bridge over Bayou St. John at Esplanade St., at an estimated cost of $30,000.

CHILLICOTHE, OHIO.—We are officially advised that contract has been awarded to the CAPITOL CONSTRUCTION CO., of Columbus, for superstructure and steel pier for a riveted truss bridge on Poke Hollow Road, with two spans, each 100 ft. long, at $40,000. Contract for substructure was awarded to M. L. JONES & BRO., of Chillicothe, at $2,997. Bids were received on Sept. 17. Contract for a 66-ft. span superstructure was awarded to the CAPITOL CONSTRUCTION CO., and contract for substructure to FRANK HANAWALT. B. H. Walker, Chillicothe, is Design. Engr.

COSHOCTON, OHIO.—George J. Bock, Jr., County Surveyor, advises us that the Commissioners of Coshocton County will receive bids until 10 a. m., Oct. 12, for substructure and superstructure of a 400-ft. bridge over the Walhanding River near Warsaw, also for two smaller bridges, and a 50-ft. span in Franklin Township and a 38-ft. span in Adams Township. Plans and specifications are on file with C. R. Randals, County Audr.

DELPHI, IND.—Bids are asked by Fred. H. Engel, County Audr., until noon, Oct. 11, for construction of two bridges, three arch culverts and bridge approaches.

INDIANAPOLIS, IND.—The County Commissioners on Sept. 17 awarded the contracts for 26 bridges to be built in Marion County in the near future. VELP & FOLTZ, contractors, were awarded 13 of the 26, having made low bids in all of the contracts offered. Other successful companies were HENRY L. HARDING, H. F. HACKERDORN & CO., MARION COUNTY CONSTRUCTION CO and THEODORE FRAZ-

IER. The prices range between $407 and $7,250. Most of the contracts are for small bridges over creeks along principal roads in the county. There are very few of any great size.

WOODBURN, IND.—The County Council is reported to have appropriated $20,000 for the construction of a steel bridge over Maumee River, near Woodburn.

SARDINIA, IND.—Bids are asked until Oct. 1 by the Board of County Commissioners, at Greensburg, for constructing a concrete arch bridge in Jackson Township, near Sardinia.

GRAND RAPIDS, MICH.—We are officially advised that bids were received on Sept. 7 by the Board of Public Works, James E. Keegan, Pres., for constructing two abutments and three piers for the Ann St. bridge across Grand River, at Grand Rapids, and that contract has been awarded to GRAND RAPIDS BRIDGE CO., Comstock Park, Mill Creek, Mich., at $20,000. L. W. Anderson is City Engr.

MILWAUKEE, WIS.—Bids were received on Sept. 14 and contract awarded to the STROBEL STEEL CONSTRUCTION CO., at $115,300, by the Commissioners of Public Works, for erecting a bascule bridge over the North Menomonee Canal, at 60th St., in Milwaukee. Charles G. Poetsch is City Engr.

SPARTA, WIS.—Bids are asked until Sept. 28 by the Bridge Committee, Common Council, C. E. Simpson, Chn., for constructing an 80-ft. steel bridge with four spans, on 24-in. tubular piers, 16-ft. roadway and 5-ft. sidewalk on one side.

HOLTON, KAN.—Bids are asked until 1 p. m., Oct. 2, for building two steel bridges. Geo. L. White, Chn. Bd. County Comrs.

BEATRICE, NEB.—Bids are asked until Oct. 2 by B. H. Conlee, County Clk., for furnishing material and constructing a number of bridges in Gage County.

MITCHELL, S. DAK.—Bids are asked until 1 p. m., Oct. 3, by O. D. Stearns, Audr., Davison County, for building one steel bridge, 80 ft. long, with approaches.

GREEN RIVER, WYO.—The County Commissioners have awarded a contract to C. G. SHELLY, of Denver, Colo., for the construction of a steel bridge over Black's Fork River, at $6,249. The bridge will be 14 ft. wide and will have a 200-ft. span.

LESLIE, ARK.—See under Railways—Missouri & North Arkansas R. R.

MENA, ARK.—Judge W. Prickett has given a contract to the VIRGINIA IRON BRIDGE CO. for two iron bridges to be constructed across the Iron Fork and the Ouchita Rivers.

RICHMOND, TEX.—The Commissioners' Court of Fort Bend County has ordered an election to vote on a $4,000 bond issue, being one-half the cost of building a steel bridge over the Bernard River near Schley's Crossing, connecting Fort Bend and Wharton Counties.

HOBART, OKLA.—Bids are wanted by the Board of County Commissioners (G. W. Daniel, Acting Chn., for constructing 14 bridges in Kiowa.

BONSALL, CAL.—The Board of Supervisors have awarded the contract for constructing a bridge over the San Luis Rey River, at Bonsall, to the NATIONAL BRIDGE CO., of Indianapolis, at $8,750. No other bids were received.

SALT LAKE CITY, UTAH.—PALMER & TATE, of Salt Lake, were awarded contract recently by the County Commissioners for building a concrete bridge over the Jordan River at 14th South St., at $4,200.

TORONTO, ONT.—A steel bridge and stone foundation will be built, to cost $200,000, in connection with the new union station for street car service. C. H. Rust is City Engr.

FORT WILLIAM, ONT.—A steel bridge will be built over the Kaministiquia River here to cost about $140,000. James McTeigue, Town Clerk, Port Arthur, Ont., will receive bids.

CARMAN, MAN.—Contract was awarded on Sept. 21, we are informed by Cecil Goddard, Consult. Engr., Winnipeg, to the ONTARIO WIND ENGINE & PUMP CO., of Winnipeg, at $7,500, for an elevated steel tank, 100 ft. high, with capacity of 65,000 imperial gallons.

CARBERRY, MAN.—Bids will be asked soon for constructing a sewer system and completing water-works system here. 10,000 ft. of water mains already laid. Sewage is disposed of by septic tanks. Cecil Goddard, 6 Roslyn Road, Winnipeg, is Consult. Engr.

WINNIPEG, MAN.—Bids are asked until 2.30 p. m., Oct. 16, by Alderman J. G. Latimer, Chn. Com. on Works, for erection of concrete piers and abutments for support of a steel bridge over Red River at Redwood Ave. H. N. Ruttan, City Engr. (Advertised, Engineering News.)

Bids are asked until 2.30 p. m., Oct. 20, by Alderman J. G. Latimer, for erection of steel superstructure for this bridge. (Advertised, Engineering News.)

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MALDEN, MASS.—MEAD, MASON & CO., of Boston, have been awarded the contract to erect the addition to the high school for $250,000. Cooper & Bailey, 60 Congress St., are Archs. It is to be a 3-story, brick and limestone building, 320 x 100 ft.

SPRINGFIELD, MASS.—Frank L. Dunlap and J. A. Angers & Bro., it is stated, intend erecting a 5-story store and apartment house at Main and Winthrop Sts., to cost $100,000.

BOSTON, MASS.—A 12-story building is to be erected at Beacon St. and Bay State Rd. by a New York syndicate.

ALBANY, N. Y.—A 2-story brick warehouse, of fireproof construction, is to be erected at Trivoli and Manor Sts. by the International Harvester Co. It is to be lighted by electricity, heated by hot water, and is to have electric elevator service. The contract for erecting the building has been awarded to M. L. RYDER BLDG. CO., 356 State St.

NEW YORK, N. Y.—Bids are asked by the Department of Public Charities until noon, Oct. 2, for erection of diet kitchens and utility rooms at the Sea View Hospital, on the south side of Manor Rd., Township of Castleton, in the Boro. of Richmond. Robert W. Hebbert is Comr.

ARVERNE, N. Y.—Extensive improvements are to be made to the Arverne Hotel. I. H. Rosenfeld is owner.

GREENPORT, N. Y.—Application has been made to erect a $1,000,000 abattoir at the foot of Oak St. by Plant Bros.

LAKE PLACID, N. Y.—Plans have been made, whereby $200,000 will be spent in improving the hotels here. About $90,000 will be spent on the Stevens House. And the expenditures on Whiteface Inn will be about $85,000.

NEW YORK, N. Y.—Plans have been filed with the Building Superintendent for the 3-story building, 80 x 100 ft., which is to be erected at 126-128 East 125th St. for the Harlem Savings Bank. Bennister & Schnell are Archs.

The St. Edmunds Roman Catholic Church will erect a reinforced concrete church at Morris Ave. and 177th St., at a cost of $45,000.

The 76th St. Co. will build a 12-story fireproof apartment house at West End Ave. and 76th St. It is to be 79 x 100 ft. Estimated cost, $425,000.

Mason & Ehrman propose to build a warehouse to be six stories high and 100 x 100 ft., at Fifth and Everett Sts. Whidden & Lewis are Archs.

The First German Presbyterian Church is going to build a new church at a cost of $100,000. It is to be located on Leonard St. near Stagg St.

Plans have been filed with the Building Department for a 10-story loft and store building at 8-10-12 East 34th St. for Charles H. Ditson at a cost of $230,000. Townsend, Stinle & Haskell, 29 East 19th St., are Archs.

JOHN THATCHER & SON have been awarded the contract for the erection of a building between the main building and Clinton St., at the Packer Collegiate Institute, in the Boro. of Brooklyn. N. Le Bun's Sons, 1 Madison Ave., are Archs.

WEST POINT, N. Y.—Bids have been opened by Major J. M. Carson, Jr., U. S. A., Quartermaster at West Point, N. Y., for the construction of the quarters for the bachelor officers at the Military Academy. The lowest bid of $259,943 was received from the Buckley Realty & Construction Co., Times Bldg., New York. The building will be of brick and stone, of fireproof construction, three stories high, 50 x 180 ft. Cram, Goodhue & Ferguson, 170 Fifth Ave., New York, are Archs.

NEW YORK, N. Y.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 20, for the construction of Contagious Disease Hospital, U. S. Immigrant Station, Ellis Island, N. Y. (Advertised, Engineering News.)

Bids are asked by the Department of Public Charities until noon, Oct. 12, for the excavation, masonry, steel and iron, roofing and metal work, carpentry, glazing, painting, hardware, elevator work, electric work and all other work (except plumbing, heating, elevator machinery and cars, electric wiring and fitting up of the diet kitchens and utility rooms), for the construction and completion of eight ward buildings of the Sea View Hospital, Castleton, Boro. of Richmond. Raymond F. Almirall, 51 Chambers St., is Arch. Plans and specifications are on file at office of Engineering News, New York.

YOUNGSTOWN, N. Y.—Bids are asked by the Constructing Quartermaster until 11 a. m., Oct. 19, for the construction of one double set of officers' quarters, one set of bachelors' quarters and one barracks.

GLOUCESTER CITY, N. J.—The School Board will soon have plans prepared for a 3-story brick high school.

PHILADELPHIA, PA.—The Belt Telephone Co. will erect 10 or 12-story office building at Broad and Spruce Sts. The estimated cost of which, including switchboard equipment, is $1,000,000.

Metzger & Wells, Heed Bldg., have been awarded the contract for the erection of the bank building at 52d and Market Sts. for the West Philadelphia Title & Trust Co. It is to be a 2-story brick, stone and steel building of fireproof construction. Estimated cost, $100,000.

Bids are asked by H. G. Dagit, Arch., 435 Chestnut St., for the erection of a 7-story brick and reinforced concrete warehouse, to be erected for the Conway Estate at 210-212 North Twelfth St.

YORK, PA.—Plans have been approved for the erection of a jail in this city at an estimated cost of $150,000. B. F. Willis is Arch.

FRANKLIN, PA.—William Young Brady, Arch., has prepared plans for the $80,000 jail which is to be erected in this city. It is to be a building with stone exterior and steel interior.

BALTIMORE, MD.—Charles E. Cassell & Son, Archs., 411 North Charles St., have prepared plans for a Christian temple, which is to be erected on Fulton Ave. near Lexington St.

The Young Men's Christian Association is going to erect a building at Cathedral and Franklin Sts. Estimated cost $500,000.

WASHINGTON, D. C.—Bids are asked by Capt. John Stephen Sewell, Engrs., Constructing Officer, until noon, Oct. 22, for the erection of a guard house at U. S. Soldiers' Home. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids were opened Sept. 20, at the Interior Dept., Washington, D. C., for fireproof doors and stairways in the Government Hospital for the Insane, Washington, D. C. Item 1, doors; item 2, entire work; Boyer & Smith, 1204 C St., N. W., Washington, (2) $19,951 and $19,000, 180 days, alternate, percentage basis, 10% above actual cost; Fred S. Gichner, 1214 D St., N. W., Washington, (1) $5,340 and $4,382, 180 days, (2) $18,040 and $16,684, time six months; Fireproof Door Co., 401 Twelfth Ave., South, Minneapolis, Minn., (1) $4,855 and $3,984, 130 days.

Plans are being prepared by Harding & Upman, Archs., 729 15th St., N. W., for the erection of a hotel at New Jersey and C Sts., for the Congress Hall Hotel Co. It is to be an 8-story, brick, stone and steel building of fireproof construction. Estimated cost, $300,000.

The contract for the erection of 5-story brick, stone, steel and concrete apartment house for A. O. Bliss, to be erected at First and B Sts., has been awarded to the W. E. SPEIR CO., 1342 New York Ave.

WASHINGTON, D. C.—Bids have been opened by A. Goenner, Bliss Bldg., Washington, for the construction of an apartment house for Dr. Alonzo O. Bliss, at First and B Sts., N. W., Washington, and W. E. Speir & Co., 1342 New York Ave., N. W., was lowest bidder, at about $100,000. The building will be of brick and stone and reinforced concrete, five stories high and cellar, 50 x 125 ft.

GEO. A. FULLER CO., Munsey Bldg., Washington, have been awarded the contract for the construction of an office building and brokers' office, at 725 15th St., N. W., for W. B. Hibbs, bankers, 1419 F St., N. W., Washington. The building will be of marble and brick, of fireproof construction, nine stories high, 40 x 109 ft., and will cost about $250,000. Bruce, Price & De Sibour, 1133 Broadway, New York, are Archs.

SALISBURY, N. C.—The County Commissioners have commissioned Architect Frank P. Milburn & Co., Home Life Bldg., Washington, D. C., to prepare plans and specifications for the new Rowan County Jail. Plans will be out about Nov. 1, when bids will be called for.

CHARLESTON, S. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., until 10 a. m., Oct. 16, for the installation of a plumbing system in building No. 2, Navy Yard. H. T. B. Harris, Paymaster-Gen., U. S. N.

FORT McPHERSON, GA.—Bids are asked by Capt. B. B. Buck, Constructing Quartermaster, until Oct. 10, for installation of hot water heating apparatus in several officers' quarters.

ATHENS, GA.—A new college building is to be erected here for the University Agricultural Department at a cost of $100,000. J. J. Coemer is Chn. of the Com. in Charge.

CHATTANOOGA, TENN.—A permit has been granted for the erection of a 14-story building to be erected on Eighth St., between Chestnut and Broad Sts., at a cost of $300,000, by C. E. James. The contract has been awarded to W. S. HOLMES.

MEMPHIS, TENN.—John Pierce Co., New York, N. Y., was the lowest bidder, at $623,573, for the construction of court house.

LOUISVILLE, KY.—The contract will be let in November for a 4-story annex of granite and stone to City Hall, for which plans have been prepared by James P. Curtin, Arch. Estimated cost, $125,000. Contract for constructing granite base has been let to the PETER & BURGHARD STONE CO.

BOWLING GREEN, KY.—Plans are being prepared by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for the 3-story stone and steel post office, of fireproof construction, to be erected here at a cost of $100,000.

CLEVELAND, OHIO.—The Euclid Realty Co. will build a 4-story brick apartment house on Euclid Ave. near Edgemore Pl., at a cost of $75,000.

The Eldridge & Higgins Co. will erect a 9-story store building to be located at Huron and Ontario Sts. Richards, McCarty & Bufford, 63 The Ruggery, are Archs.

SPRINGFIELD, OHIO.—The New York Central & Hudson River R. R. Co. will erect a freight and passenger station here at a cost of $300,000. D. Fairchild, of New York, is Pur. Agt.

INDIANAPOLIS, IND.—The plans of Rubush & Hunter, Archs., 22 Fitzgerald Bldg., have been selected for the construction of the proposed city hall and colosseum.

DETROIT, MICH.—It is proposed to erect a $150,000 administration and exhibition building on the State Fair Grounds. A. E. Stevenson is Gen. Supt.

KALAMAZOO, MICH.—A 6-story business building is to be erected on Main st. for the Edwards & Chamberlin Hardware Co.

PORT HURON, MICH.—A 2-story school building to cost $100,000 is to be erected here. Plans have been prepared.

CHICAGO, ILL.—A large new warehouse will be built at Grand Ave. and Jefferson St. for A. Booth & Co., 143 Dearborn St. Dean & Dean, Archs., 218 La Salle St., have made designs, which call for a 2-story building, 110 x 240 ft. It will be built of brick, stone and iron, and cost about $100,000.

It is reported that Hannah & Hogg, 307 Washington St., will build a large new hotel at Randolph and Clark Sts. According to the reports Marshall & Fox, Archs., 164 Dearborn St., will prepare plans for the new building, which is to be 20 stories high, of absolute fireproof construction, and which will contain hotel and theater. The cost will be about $1,500,000.

Delos W. Potter will build a large apartment house at the intersection of Graceland, Clarendon and Evanston Aves., on the North Side. It will be three stories high and will contain 30 apartments of four and five rooms each. It will cost about $80,000.

Plans are being prepared for a 6-story building to be constructed on Jackson Blvd., near Aberdeen St., at a cost of $100,000, for the Curtis-Leger Fixture Co., and the National X-Ray Reflector Co.

It is reported that $250,000 will be spent in erecting a new Ghetto. Robert R. McCormick, Pres. of the Sanitary District of Chicago, has given $100,000 toward the needed $250,000.

The Coda heirs are having plans prepared for an 8-story mercantile building to be erected at La Salle and Polk Sts. It will cover an area of 50 x 100 ft., and will be of pressed brick and stone, the interior being of mill construction. It will cost $100,000.

OMAHA, NEB.—Plans are being prepared under the direction of Commissioner Bruning for the erection of a court house which is to cost $1,000,000. It will have two large wings each five stories in height.

EXCELSIOR SPRINGS, MO.—Plans are being prepared for hotel to be erected by I. J. Ringolsky, New York Life Building, Kansas City, Mo., and M. A. Isaacs, New York, N. Y., at a cost of $2[illegible].

ST. LOUIS, MO.—Negotiations are being conducted for the erection of a [illegible]-story office building and theater, to be thoroughly fireproof and modern in every respect, and cost $450,000.

St. Louis Implement Co. has applied for a permit to erect a 6-story building, 80 x 150 ft. Estimated cost, $85,000.

DALLAS, TEX.—HOWARD KENYON, of the Stevenson-Kenyon Contract Co., has secured the contract for the erection of the hotel for Lucas Bros., at a cost of about $400,000.

SEATTLE, WASH.—A jail is to be erected here of concrete construction, three stories high, at a cost of $208,000.

PORTLAND, ORE.—The Portland Commercial Club Building Association is going to erect a building at Fifth and Oak Sts., at a cost of $350,000.

LOS ANGELES, CAL.—Plans have been prepared by John P. Kempel, Arch., Henne Bldg., for the erection of a 3-story brick apartment house for F. A. Hartmann. Estimated cost, $75,000.

SANTA ANA, CAL.—It is reported that a new post office is to be erected here.

SAN FRANCISCO, CAL.—The William Wilson Co. will expend about $300,000 in improvements on four downtown buildings, among them a 6-story brick and stone building on Montgomery St., $75,000, and for a 6-story building on Post St., $130,000.

The Bank of Italy will soon begin the erection of its building at Montgomery and Clay Sts. It is to be a 10-story building. Estimated cost, $200,000.

An 8-story class A building is to be erected at Fourth and Market Sts. by The Pacific Co., at a cost of $750,000.

SANTA CRUZ, CAL.—We are officially informed that the Santa Cruz Co. will erect a bath house and theatre here at a cost of $200,000. It is to be a 2-story, wood, steel and cement building. Bids are being received. W. H. Weeks, 6 East St., San Francisco, Arch.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The Board of Aldermen of Chelsea has appropriated $10,000 for the installation of water meters.

HYDE PARK, MASS.—The committee appointed to look into the purchase of the plant of the Hyde Park Water Co. has reported in favor of the purchase. Clarence G. Norris is Town Engr.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Oct. 1, for improvement of the water supply and for engine foundations and appurtenances at the Quackenbush St. emptying station, Albany. Walter E. Melius is City Engr.

MARTINSBURG, N. Y.—The Village Council has decided to construct water-works system at a cost of about $10,000. Sidney E. Snell, of Lowville, N. Y., is Engr.

SENECA FALLS, N. Y.—The Water Commission is reported to be considering the selection of an engineer to appraise the water-works of the present company.

MIDDLETOWN, N. Y.—An election will probably soon be held to vote on the question of appropriating $110,000 for laying new water mains, $15,000 for enlarging the filter plant and $500 for removing old roadway at Monhagen Lake.

HOLLAND PATENT, N. Y.—Bids are asked by Village Board of Trustees until 7 p. m., Oct. 11, for constructing a system of water-works. E. Willard Jones, Clk.

ROCHESTER, N. Y.—Bids are asked until 10 a. m., Oct. 3, by F. X. Pifer, Clerk Bd. Contract and Supply, for excavating trenches for water mains and for laying water pipes therein and refilling trenches in a number of streets.

LOCKPORT, N. Y.—Bids are asked until 8 p. m., Oct. 8, for two 10,000,000-gallon steam pumps or three 5,000,000-gallon electric pumps; steel standpipe, 126 ft. high, 25 ft. diameter; 13 miles of 30-in. c.-i. or riveted steel pipe; 4,000 ft. of 24-in. c.-i. pipe; twelve 30-in. stop valves and air valves. Charles A. Hague is Consult. Engr., 52 Broadway, New York. Julius F. Frehsee is City Engr. Plans have been completed and permission has been granted by State Water Commission for supply from Niagara River. Probable cost of work, $500,000.

NEW YORK, N. Y.—Bids were received as follows on Sept. 19, by Department of Water Supply, Gas and Electricity, for furnishing (a) 15,000 tons of c.-i. pipe and (b) 400 tons of special castings: Warren Foundry & Machine Co., 170 Broadway, (a) $31 a ton, (b) $58 a ton; United States Cast-iron Pipe & Foundry Co., (a) $30.25 a ton, (b) $57.50 a ton; M. J. Drummond & Co., (a) $31.50 a ton, (b) $55 a ton.

Bids were received at same date for furnishing and delivering c.-i. stop cock boxes and covers as follows: Section 1, 352,000 lbs. of castings, and Section 2, 352,000 lbs. of castings. Bids will be given next week under Contract Prices.

BALLSTON SPA, N. Y.—The Board of Trustees of Ballston Spa has decided to install a water meter with every consumer in the village. Costs of meters will be made and then bids will be asked for furnishing about 1,200 meters. William H. Sherman is Clerk of Ballston Spa.

HALEDON (Paterson Post-office), N. J.—John B. [illegible] is Consult. Engr. for proposed municipal water supply; $50,000 is available.

WILKES-BARRE, PA.—Bids are asked until Oct. 4 by the Hazleton Water Co., S. D. Warriner, Gen. Mgr., for the trenching, backfilling, unloading and distributing of pipe (the laying to be done by the company) for a 16-in. pipe line from the Roan Reservoir in Banks Township, Carbon County, Pa., to the Beaver Meadow Swamp, a distance of about 12,000 ft.

STEELTON, PA.—The Board of Water Commissioners has recommended the purchase and installation of a compound steam driven flywheel pump of 3,000,000 gallons capacity, to cost about $15,000.

McKEESPORT, PA.—Alexander Potter, 143 Liberty St., New York, is Engr. for the proposed filter plant, which will cost between $150,000 and $200,000. Bids will not be called for before 1907. T. H. Verner is Supt. Water and Light Comrs.

CHARLOTTESVILLE, VA.—Bids are asked until noon, Oct. 10, by Channing M. Bolton, Ch. Engr. of W.-W., for building a concrete dam about 400 ft. long and 67 ft. high. (Advertised, Engineering News.) Noted on Aug. 23.

FORTRESS MONROE, VA.—Bids are asked by Capt. R. H. C. Kelton, Q. M., Fort Monroe, until noon, Oct. 15, for constructing a 50,000-gallon steel water tank. (Advertised, Engineering News.)

WISE, VA.—See under Light and Power Plants.

MURPHY, N. C.—Town has voted a $40,000 bond issue for constructing water-works. J. Q. Baker, Andrews, N. C., is Consult. Engr. Noted on Sept. 13.

TUSCALOOSA, ALA.—City will vote on a $125,000 bond issue for the construction of water-works, noted last week. Everything in connection with the undertaking will be new, and a change will be made in the course of water supply. F. G. Blair is Mayor.

NEWTON, MISS.—C. L. Wood, C. E., Columbus, Miss., has been engaged to prepare plans and estimates for water-works system to be constructed, for which bonds will be issued. J. D. Carr is Mayor.

OPELOUSAS, LA.—Bids will be received until Oct. 2, at the office of B. A. Littell, Mayor, for boring an artesian well at the power house.

NEW ORLEANS, LA.—Contract has been awarded by the Sewerage and Water Board for furnishing and erecting two complete water purification plants, one of 40,000,000 gals. capacity and the other 4,000,000 gals. capacity, including excavation, foundation, concrete masonry, reservoirs and filters, head houses, pumping station building, wharf and intake, pipe and appurtenances, etc., to BLACK & LAIRD, LTD., New Orleans, at $1,840,727. Other bids received on Sept. 5 were: Scofield & Co., $1,897,298, and the New York Continental Jewell Filtration Co., $2,127,342.

SWEETWATER, TENN.—Site has been secured by the City for proposed water-works plant.

OWENSBORO, KY.—The City Council has voted to issue $60,000 of additional bonds for extending the water mains. E. B. Shifley is City Engr.

JEFFERSON, OHIO.—The question of constructing water-works is reported under consideration by the City Council.

DECATUR, ILL.—The proposed water-works will cost about $100,000. Daniel W. Mead, of Chicago, is Engr., as noted last week.

BLOOMINGTON, ILL.—Bids are asked until Sept. 28, for 20, 18, 16, 12 and 10-in. water mains, and for two 250-HP. water tube boilers. Elmer Folsom is City Engr.

HARMON, ILL.—Village is making arrangements for constructing a new water-works system.

WATERLOO, IOWA.—The franchise of the Waterloo Water Co. has expired, and it is stated that the city is now open for propositions from all parties desiring to submit proposals for a water franchise. It will cost about $300,000 to construct water-works complete. Noted last week.

CLOQUET, MINN.—E. R. TOWNSEND, of Chicago, Ill., is reported to have secured a franchise for water-works at this place.

ST. PAUL, MINN.—The lowest bid opened on Sept. 10 by the Water Board for replacing the present wooden flume between Centerville and Deep Lakes, is stated to have been submitted by Jas. Forrestal Co., at $35,845, and the same was rejected. New specifications will be prepared.

PIERRE, S. DAK.—Bids are asked until Oct. 1 for the construction of a large infiltration well. Plans and specifications are on file with the City Auditor and also with Edward K. Mather, City Engr.

SIOUX FALLS, S. DAK.—L. P. Wolff, of St. Paul, Minn., has made plans for the new municipal water-works system to be established here.

BUFORD, N. DAK.—The Secretary of the Interior has awarded contract for furnishing and installing pumping machinery for the Buford-Trenton irrigation project, N. Dak., to the D'OLIER ENGINEERING CO., of Philadelphia, Pa. Four bids were received for this work, the lowest being that of the Camden Iron Works, of Camden, N. J., at $40,574, and the next lowest that of the D'Olier Engineering Co., at $40.836. Careful consideration was given to these two bids and the conclusion was reached that the last-named company's proposal provides for the greater pumping efficiency. The contract calls for the installation of three transformers of 300 kilo-watt capacity, and eight motor-driven pumping units of capacities of 16 and 30 cu. ft. per sec. under heads of 50 and 33 ft. respectively, with necessary electrical apparatus and water mains, in pumping stations near Buford, N. Dak.

BISMARCK, N. DAK.—The Water Board will arrange to construct a new reservoir.

BIGTIMBER, MONT.—Bids are asked until 6 p. m., Oct. 22, for purchase of $40,000 of water bonds.

DALLAS, TEX.—The City Council is reported to have approved the estimate of the City Engineer for water main improvements in Fair Park, to cost $25,500.

EL PASO, TEX.—Bids are asked by Lieut. C. O. Schudt, Construction Q. M., at Fort Bliss, until Oct. 15, for sinking a 12-in. tubular deep well, installing a deep well pump over same, and for constructing a deep well pump shelter and trestle, and a 150,000-gal. steel tank on a 70-ft. trestle at Fort Bliss.

LA PORTE, TEX.—The construction of a new water-works plant at a cost of $18,000 is being planned for this place.

SPOKANE, WASH.—The Interstate Irrigation Co. may construct a pumping station with a capacity of 6,000 gallons a minute. D. D. Drumheller is Pres. John Malloy is Secy.

TROY, IDAHO.—A committee consisting of A. H. Oversmith, Oscar Larson, C. A. Broman and John Botten is interested in project to install a water-works system.

CALDWELL, IDAHO.—Bids are asked until 6 p. m., Oct. 13, for constructing an extension to the city water-works system. R. S. Madden is Mayor.

DALHOUSIE, N. B.—Bids are asked until 7.30 p. m., Oct. 3, by Alex. J. Le Blanc, Town Clerk, for furnishing material and laying about 17,000 ft. of 8, 10 and 12-in. conduit pipe. Willis Chipman, Ch. Engr., 103 Bay St., Toronto, Ont. W. E. Douglas, Resident Engr., Dalhousie.

FERGUS, ONT.—Council has decided to submit a by-law to the citizens to provide for the expenditure of $40,000 on a system of water-works.

ALMONTE, ONT.—At a special meeting of the Town Council recently the contract for making plans and surveys for a proposed system of water-works was awarded to McDOUGALL & McRAE, Civil Engrs., of Ottawa. Work on the surveys will begin immediately.

NORTH TORONTO, ONT.—The Ontario Railway and Municipal Board is stated to have approved the application of this city for issuing $7,200 of bonds for water-works improvements.

DUNNVILLE, ONT.—Bids are asked until 8 p. m., Oct. 2, by J. W. Holmes, Town Clerk, for laying about 7,000 lin. ft. water mains. Willis Chipman, Ch. Engr., 103 Bay St., Toronto.

AURORA, ONT.—Bids are asked by S. H. Lundy, Town Clerk, until Oct. 1, for $10,000 of water-works improvement bonds.

CALGARY, ALTA.—George Lang and Paul Parodis, Engrs., will make plans for an irrigation scheme involving a cost of $2,500,000. A large section of land near Sullivan Lake, 100 miles long by 20 miles wide, will be irrigated by a main channel 55 miles in length with 700 miles of subsidiary canals. An English syndicate, which owns a vast acreage in that vicinity, is supplying the capital.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—Bids are asked by C. W. Kelly, City Engr., for constructing the overflow sewer at State and Water Sts. Estimated cost, $8,000.

NEW CANAAN, CONN.—The following bids were received Sept. 15 for the New Canaan sewer work: Receiving Basin: JOHN TWINAME, $2,600; Chas. Cooke & Co., $3,000; Fred. W. Stowers, $3,000; Andrew M. Cusack, $3,350. Filter Beds: FRED. W. STOWERS, $8,248; Chas. Cooke & Co., $10,775; John Twiname, $10,916. Section 1: ANDREW M. CUSACK, $21,091; Chas. Cooke & Co., $21,386; John Twiname, $23,012. Section 2: Chas. Cooke & Co., $20,206; Andrew M. Cusack, $21,230; John Twiname, $22,055. JOHN TWINAME was awarded the contract for the receiving basin, FRED. W. STOWERS for the filter beds, and ANDREW M. CUSACK for Section 1. All bids on Section 2 were rejected.

AUBURN, N. Y.—Three bids were received by J. Walter Ackerman, City Engr., on Sept. 18 for constructing the Genesee St. and Garrow St. sewer. The lowest was $4,952.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Oct. 3, for the construction of various sewers in the Boro. of Brooklyn.

The following bids were received for constructing a sewer in 73d St., from 14th to 15th Ave., Boro. of Brooklyn, (a) brick, (b) reinforced concrete: Newman Construction Co., (a) $77,242, (b) $88,119; John J. Green, (a) $63,564, (b) $69,289; Murphy Bros., (a) $72,773, (b) $130,913; Donegan & Redmond, (a) $57,519, (b) $67,707; O'Grady Bros., (a) $74,609, (b) $83,799; P. J. McCauley, (a) $61,532, (b) $84,281; Borough Construction Co., (a) $54,777, (b) $70,447; Sigretto & Memm Co., (a) $59,211, (b) $64,057. And for constructing a sewer in Flatbush Ave., from Nostrand Ave. to Ave. A, Boro. of Brooklyn, received in two estimates, (a) and (b): Donlon Construction Co., (a) $69,758, (b) $62,601; Jas. Kelly, (a) $59,622, (b) $59,636; O'Grady Bros., (a) $73,242, (b) $69,286; Borough Construction Co., (a) $60,432, (b) $53,015; Hesterberg & Meyers, (a) $59,190, (b) $53,364; Jno. J. Green, (a) $63,393, (b) $59,203; Newman Construction Co., (a) $54,127, (b) $59,570. Bidders were all from Borough of Brooklyn.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works until 11 a. m., Oct. 4, for constructing various sewers in this city. F. G. Ward, Comr.

PORT CHESTER, N. Y.—Bids are asked by Willis P. Clark, Secy. of Clark & Parker Realty Co., 46 North Main St., until noon, Oct. 10, for the construction of a sewer. (Advertised, Engineering News.)

CAPE MAY, N. J.—Bids are asked by the City Council until 8 p. m., Oct. 8, for the construction of a part of its sewer system. Joseph R. Brooks is Chn. of Com. on Sts. (Advertised, Engineering News.)

NEWARK, N. J.—The Board of Street and Water Commissioners have received the following bids for the construction of the East Branch lateral sewer section 2: Harrison Construction Co., Newark, $27,030; Chas. Ippolito, Orange, $30,949; Jas. R. Christie, Newark, $26,834; W. J. McCloud, Elizabeth, $26,881; James J. Tusco, Montclair, $24,473.

LEBANON, PA.—It is reported that $127,000 is to be expended on the sewer system in this city. Thomas R. Crowell is City Engr. and James H. Fuertes, of New York, is Design. and Consult. Engr.

WASHINGTON, D. C.—Bids were opened Sept. 20, at the office of the District Commissioners, Washington, for the construction of sewers in the District of Columbia. Bids were received from (a) E. G. Gummel, Eckington, (b) E. Saxton, 841 Bladensburg Rd.: Ordinary excavation, (a) $1.50 per cu. yd., (b) $1.70; sewer brick masonry, (a) $17, (b) $15; vitrified brick masonry, (a) $20, (b) $20; concrete masonry "D", (a) $8, (b) $8.

WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia until 2 p. m., Oct. 1, for furnishing the District Government 7,000 ft. of 24-in. terra cotta sewer pipe and 3,600 ft. of 21-in. terra cotta sewer pipe. Henry B. F. Macfarland and John Biddle are Comrs. (Advertised, Engineering News.)

Bids are asked until noon, Oct. 18, by the Commissioners of the District of Columbia for the construction of sewers. Henry B. F. Macfarland and John Biddle are Comrs. (Advertised, Engineering News.)

FAYETTEVILLE, N. C.—Date for receiving bids has been postponed to Oct. 10 from Oct. 3, by W. N. Tillinghast, Clk. of Pub. Wks. Comn., for constructing a sewage system in this city. (Advertised, Engineering News.)

BAINBRIDGE, GA.—The City has voted affirmatively a $35,000 bond issue for the construction of sewerage system.

TAMPA, FLA.—WARREN BROS. have been reawarded the contract for sewer work in this city.

PADUCAH, KY.—THOMAS BRIDGES' SONS, Wabash, Ind., have contract at $119,750.24 for constructing complete storm water and sanitary sewerage system.

SPRINGFIELD, OHIO.—The City Council has authorized the issuance of $200,000 of bonds for the construction of high and low level and the outfall sewers and disposal plant designed by Snow & Barbour, of Boston.

YOUNGSTOWN, OHIO.—The following bids were received for the construction of the Hazel St. sewer: M. Horan, $8,457; John Grady, $9,861; C. H. Connell, $11,320.

GRAND RAPIDS, MICH.—The contract for the construction of a sewer in Monroe St. has been awarded by the Department of Public Works to PETER DE WITT, of this city, for $10,147.

CRESTON, IOWA.—The contract for the construction of a storm water sewer in the alley between Vine and Birch Sts., has been awarded to the CRESTON PLUMBING & HEATING CO., at $1.22 a lineal foot, and $3.40 a foot for the manholes.

IOWA FALLS, IOWA.—Bids are asked until Oct. 1, for the construction of five blocks of sanitary sewers.

MEDIAPOLIS, IOWA.—Bids are asked until Oct. 3, by the Commissioners of Public Works for the construction of about 2,500 ft. of sewers.

SALINA, KAN.—SALINA CONSTRUCTION CO. has been awarded contract for sewers in Iron Ave., South Eighth St., South Tenth St., West Walnut St., North Santa Fe Ave. and an alley.

BILLINGS, MONT.—The following bids were received for the Fifth Ave. sewer: Franklin Gordon, $31,475; WESH & CEDEBOHM, $37,381 (awarded contract).

HELENA, MONT.—The City Council has received the following bids for the egg-shaped storm sewer to be constructed here: The GEORGE MILTON SAVAGE CO., of Tacoma, Wash., $31,907 (awarded contract), and Zastrow & Carlson, of Helena, $38,508.

BATESVILLE, ARK.—The plans for the proposed sewer district in Batesville have been received by the Commissioners, John Q. Wolf, E. D. Fulkerson and M. C. Weaver. The estimated cost is $14,000, and bonds for that amount will be issued soon.

PINE BLUFF, ARK.—The contract for constructing the sewer system in district No. 9 has been let to I. P. SHELBY & CO., for $13,149.90. They will begin work soon.

DALLAS, TEX.—BROWN & ANDERSON have been awarded the contract for the construction of the Ervay St. storm sewer.

PORTLAND, ORE.—PAQUET, GIEBISCH & JOPLIN, of Portland, have been awarded contract, at $242,378, for constructing the Brooklyn District sewer. Itemized bids will be given next week under Contract Prices. D. W. Taylor is City Engr.

DALHOUSIE, N. B.—Bids are asked by Alex. J. Le Blanc, Town Clk., until Oct. 3, for laying 17,000 ft. of conduit pipe.

CARBERRY, MAN.—See under Water Supply-Irrigation.

AYLMER, QUE.—E. J. Rainboth, C. E., has prepared plans for new sewer system at an estimated cost of $46,000. The plans met the approval of the Town Council.

STRATFORD, ONT.—The Board of Works will ask the City Council to spend $15,000 on a storm drainage system for Avon ward.

YORKTON, SASK.—A by-law is to be voted on to spend $90,000 on sewers, water-works and telephones.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

UTICA, N. Y.—The Council has awarded to HARRY W. ROBERTS & CO. the contract for cleaning the streets for 5 years at $13,574 a year for District 1, $13,724 for District 2, and $12,107 for District 3.

FREEPORT (L. I.), N. Y.—The Rural Sanitation Co. is reported to have petitioned the Board of Village Trustees for a franchise to construct and operate a plant for the disposal of garbage.

SALEM, N. J.—Bids are asked until 11 a. m., Oct. 20, by Capt. Louis F. Garrard, Jr., Q. M., Fort Dupont, Delaware City, Del., for constructing crematory building and garbage crematory at Fort Mott, N. J. (Advertised, Engineering News.)

CHICAGO, ILL.—Contract for the disposal of the city garbage, which is to go into effect Dec. 1, is held by the CHICAGO REDUCTION CO. John C. Werdell, Deputy Comr. of Public Wks. The company will receive $47,500 a year for disposing of the garbage.

ASHEVILLE, N. C.—The Board of Aldermen is considering the construction of a garbage crematory, to cost about $10,000.

LITTLE ROCK, ARK.—The erection of a garbage reduction plant to cost $40,000 is being considered. L. P. Dreyfus, Mgr. City Garbage Co., is said to be interested.

WINNIPEG, MAN.—The City Council, on report of Health Committee, has decided to purchase and install a Decaire incinerator to cost $120,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The contracts for building of sections of the State roads in the towns of Burlington and Falmouth have been awarded to A. F. HUDSON, of Melrose, whose bid was $5,926.

NEW HAVEN, CONN.—C. W. BLAKESLEE & SONS have been awarded the contract at $18,000 for the macadamizing of Shelton Ave., from Murson St. to the city line.

GREENWICH, CONN.—JOSEPH CHRISTIAN, of Greenwich, has been awarded the contract, at $29,000, for grading and macadamizing the section of the State road between Nigger-Hale Hill and Byrom Bridge.

ALBANY, N. Y.—Bids were received by the Board of Contract and Supply, on Sept. 17, as follows, for improvement of Western Ave., from Manning Boulevard to the city line, including grading and paving carriageway with macadam and constructing culverts and ditches. The bids were: (1) gravel macadam, (2) broken stone macadam: Hudson Valley Concrete Building Co., Albany, (1) $28,580; (2) $37,580. Robert Schaefer, Albany, (1) $40,658; (2) $44,658. Alonzo Schaupp, Albany, (1) $38,370; (2) $41,370. Itemized bids for this work may be found under Contract Prices.

For improvement of Teunis St., from Third Ave. to Second Ave., by grading, curbing, paving carriageway with vitrified paving blocks, laying sidewalks with flags and vitrified bricks and building receiving basins: Mulderry Bros., Albany, N. Y., $6,003; T. Henry Dumary, Albany, N. Y., $6,385.

For improving South Lansing St., from Broadway to Franklin St., including grading, curbing, paving carriageway with vitrified paving blocks, laying sidewalks with flags and vitrified bricks, building receiving basins and laying vitrified brick sewer under carriageway: Mulderry Bros., 2Albany, N. Y., $11,157; T. Henry Dumary, Albany, N. Y., $10,752.

NEW YORK, N. Y.—No bids were received on Sept. 20 for furnishing and setting curbstone, providing necessary drainage, paving with asphalt blocks the carriageway and with rock asphalt mastic the sidewalks, and otherwise improving the semicircle at the entrance to Central Park at 66th St. and Central Park West, Boro of Manhattan.

The following bids were received by the President of the Borough of Manhattan Sept. 18, for (1) paving with asphalt block pavement on concrete foundation, the roadway of 120th St., from Amsterdam Ave. to Morningside Ave. West. (2) paving with asphalt block pavement on concrete foundation, the roadway of 134th St., from Amsterdam Ave. to Broadway. (3) Paving with asphalt block pavement on concrete foundation the roadway of 156th St., from Audubon Pl. to Riverside Drive. (4) Paving with asphalt block pavement on concrete foundation the roadway of 157th St., from Audubon Pl. to Riverside Drive. (5) Repaving with asphalt block pavement on concrete foundation the roadway of St. Nicholas Pl., from 149th to 155th St. (6) Repaving with asphalt block pavement on concrete foundation the roadway of Park Ave., east side, from 40th to 42d St., and Park Ave., west side, from 40th to 41st St. (7) Repaving with asphalt block pavement on concrete foundation the roadway of 57th St., from 9th Ave. to 10th Ave. (8) Repaving with asphalt block pavement on concrete foundation the roadway of 35th St., from 3d Ave. to Lexington Ave. (9) Repaving with sheet asphalt pavement on present pavement relaid as foundation the roadway of 42d St., from Lexington Ave. to Depew Pl. (10) Repaving with asphalt pavement on present pavement relaid as foundation the roadway of Centre St., from White St. to Walker St. and White St., from Centre St. to Baxter St. (11) Regulating and repaving with asphalt pavement on present pavement relaid as foundation the roadway of Monroe St., from Catharine St. to Market St., from Pike St. to Montgomery St. and from Gouverneur St. to Jackson St. (12)

Regulating and repaving with asphalt pavement on present pavement relaid as foundation the roadway of 54th St., from 10th Ave. to 11th Ave. (13) Regulating and repaving with asphalt pavement on present pavement relaid as foundation, the roadway of 82d St., from 1st Ave. to 2d Ave. (14) Regulating and repaving with asphalt pavement on present pavement relaid as foundation, the roadway of 59th St., from Columbus Ave. to Amsterdam Ave., and Amsterdam Ave., from 59th St. to 60th St. (15) Regulating and repaving with asphalt pavement on concrete and present pavement relaid as foundation the roadway of 152d St., from Amsterdam Ave. to Broadway. (16) Regulating and repaving with granite block pavement on a concrete foundation the roadway of 46th St., from 1st Ave. to East River. (17) Regulating and repaving with granite block pavement on a concrete foundation the roadway of 45th St., from 1st Ave. to East River. (18) Regulating and paving with granite block pavement on concrete foundation the roadway of 144th St., from Broadway to a point 271.44 ft. west of Broadway. Bids received were: Harley Contracting Co., 41 Wall St., (1) $7,410, (2) $8,519, (3) $5,110, (4) $3,173, (5) $18,688, (6) $9,155, (7) $13,197, (8) $4,463; Barber Asphalt Co., 114 Liberty St., (1) $8,178, (2) $9,460, (3) $5,807, (4) $3,388, (5) $19,503, (6) $8,435, (7) $13,590. Walde Asphalt Co., 1 Broadway, (9) $6,942, (10) $4547, (11) $22,621, (12) $6,722, (13 $4,836, (14) $10,470, (15) $5,310. Sicilian Asphalt Co., 41 Park Row, (9) $7,885, (10) $3,619; (11) $26,338, (12) $6,157, (13) $3,637, (14) $7,383, (15) $5,911. Barber Asphalt Co., 114 Liberty St. (10) $4,318, (11) $31,949, (12) $8,292, (13) $7,254, (14) $9,071, (15) $5,834. Asphalt Construction Co., 207 Broadway, (13) $3,507, (15) $5,310. The M. Baird Construction Co., 433 East 92d St., (16) $5,096, (17) $4,464, (18) $3,664. Atlanta Construction Co., 432 East 91st St., (16) $5,099, (17) $4,520, (18) $3,596. Asphalt Construction Co., 207 Broadway, (18) $3,773. George & Tarrell, Brooklyn, (16) $5,191, (17) $4,607, (18) $3,955.

FREDONIA, N. Y.—The L. N. MYERS CONTRACTING CO., of Chicago, which has been awarded the contract for the relaying of all the Fredonia and Dunkirk trolley tracks has sublet the contract for relaying of pavement on Main St. to THOMAS J. FITZGERALD.

PERTH AMBOY, N. J.—THE STANDARD BITULITHIC CO., of New York, has been awarded a contract for 25,000 sq. yds. of bitulithic pavement.

CAPE MAY, N. J.—Bids are asked by the Cape May Real Estate Co., until noon, Oct. 6, for grading 7½ miles of streets. Edmund K. Brown is Engr. (Advertised, Engineering News.)

FORT MOTT, N. J.—Bids are asked by the quartermaster until 11 a. m., Oct. 15, for furnishing and grading on roads here 28,500 bushels of oyster shells.

TRENTON, N. J.—WILLIAM F. McGOVERN has been awarded the contracts for paving with asphalt, Chestnut Ave. and Monmouth St.

ALLENTOWN, PA.—HORN & NEFF have been awarded the contract to build a section of the State road in Carbon county, beginning at the Lehighton Boro. line at Jamestown and ending at the Mauch Chunk Boro. line. The length of the proposed road is 6,300 ft.

McKEESPORT, PA.—The contract for grading and paving Superior St., from East Grant Ave. to Oliver Ave., has been awarded to M. J. WHITE for $8,975.

SCRANTON, PA.—Contract for 20,000 sq. yds. of paving on Pittston Ave. has been awarded to the STANDARD BITULITHIC CO., of New York.

BALTIMORE, MD.—The GANTZ CONSTRUCTION CO. has been awarded the contract, at its bid of $159,913, for paving York Ave., from North Ave. to the northern city limits.

WASHINGTON, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, until 10 a. m., Oct. 30 for clearing and grading about 17½ acres of land at the Naval Magazine Reservation, Ostrich Bay, Wash. H. T. B. Harris, Paymaster Gen., U. S. N.

WASHINGTON, D. C.—The RUDOLPH S. BLANCE CO., of Chicago, has been awarded the contract for laying a concrete pavement on the approaches to the Highway bridge, at $45,000.

PARKERSBURG, W. VA—The CAMDEN CLAY CO has been awarded contract for paving Ninth St.

COLUMBUS, GA.—J. H. Phillips, who recently purchased 55 acres of land in Wynton to be developed as residence section, has let contract to the SOUTHERN BITULITHIC CO., Nashville, Tenn., for paving 18,000 linear ft. of sidewalks. Contract will also be let to that company for paving the streets that will be laid off through the property. About $20,000 will be expended.

ORLANDO, FLA.—The city has voted affirmatively the $12,000 bond issue for paving streets.

PENSACOLA, FLA.—The city has engaged T. Chalkley Hatton, Engr., Wilmington, Del., to supervise the paving work for which $500,000 is to be expended. Chas. H. Bliss is Mayor.

NEW ORLEANS, LA.—Bids are asked by Charles R. Kennedy, Comptroller, until 1 p. m., Oct. 1, for laying of Schillinger sidewalks on St. Patrick, Olympia, and Iberville Sts.

Bids are also asked for paving with asphalt the intersection of Ursuline Ave. and Broad Sts.

PADUCAH, KY.—The THOMAS BRIDGES SONS, of Wabash, Ind., have been awarded the contract for constructing various sidewalks in this city. Reported Sept. 13 that the Memphis (Tenn.) Asphalt & Paving Co. had this contract.

FORT THOMAS, KY.—Bids are asked until noon, Oct. 10, by J. C. Castner, Q. M., for furnishing crushed stone and screenings for repairs to macadam roads. (Advertised, Engineering News.)

CINCINNATI, OHIO.—Bids are asked until noon, Oct. 12, by the Board of County Commissioners, of Hamilton county for the construction of various roads in the county. Christian Bardes is Pres.

CLEVELAND, OHIO.—Bids are asked by the Commissioners of Cuyahoga county, until 11 a. m., Oct. 6, for the completion of the Schaaf road improvement. Julius C. Dorn is Clk.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, until noon, Oct. 5, for delivering 50,000 cu. yds. of crushed stone for various streets. M. J. Keefe is Clk.

COLUMBUS, OHIO.—Contracts to the extent of $78,952 have been awarded by the Board of Public Service as follows: For paving Cherry St., from Allen to 19th St. and Bolivar St., from Mt. Vernon Ave. to Whitcomb Ave. to A. G. PUGH, for $20,451; repairing Broad St., from Starling to Central with Athens block to the Buckeye Engineering & Construction Co., for $11,345; alley north of Buttles Ave.; Front to Dennison St. with Athens block, to the WILLIAM H. LUCHTENBERG CO., $6,901; Souder Ave., Town to Sullivant St., with Athens block to WILLIAM E. SCHWARTZ, $5,651; Cleveland Ave., Long to Buckingham St., with block, FRANK J. FISHER, $2,121; 13th Ave., High to Indianola St., with Trinidad asphalt, BARBER ASPHALT PAVING CO, $8,979; 12th Ave., High to Summit St., with El Oso asphalt, A. G. PUGH, $17,581; 6th St., Innis Ave., south line of Linton & McLarren's addition, with Nelsonville block, D. E. SULLIVAN, $4,922.

WYOMING (Cincinnati post-office), OHIO.—Bids are asked until noon Oct. 8, by the Trustees of Springfield Township, for the construction of various roads. Herman Duhme, Jr., is Township Clk.

YOUNGSTOWN, OHIO. — The following bids were received for the Front and Canal Sts. paving: M. Horan, $11,439.80; John Grady, $11,652.75; Mullen M. & C., $12,149; John McCarron, $12,350.70; A. Collucci, $12,779.50; Rochford & Comisky, $12,905.05; C. H. Connell, $13,394.90; Barber Asphalt Paving Co., $16,083.90.

WINCHESTER, IND.—The County Commissioners have awarded the contract for the construction of the macadam road 13,200 ft. long to CALVIN W. MILLER, for $7,444.

NEWPORT, IND.—The contract for constructing 3 miles of gravel road in Vermillion Township has been awarded to GEO. W. SYKES for $4,980.

GREENCASTLE, IND.—Bids are asked by the Commissioners of Putnam County until 11 a. m., Oct. 20, for the construction of 7,688.5 ft. of macadam road in Mill Creek township, known as the F. B. Allee et al gravel road. C. C. Hurst, County Audr.

TERRE HAUTE, IND.—Bids are asked by the Commissioners of Vigo County until 11 a. m., Oct. 13, for the construction of the following gravel roads:

Road No. 7, known as Jno. A. Wood road in Fayette township; No. 12, known as Lockport & Darwin road in Linton township, and No. 3 the Lockport & Darwin road in Prairie Creek township, and No. 13 the Hook road in Linton township. Bond. J. W. Denehie, County Audr.

SHELBYVILLE, IND. — AVERY, HAMMOND & HOWARD, Waldron, Ind., have been awarded the contract to construct the Howe, Waldron, Vandalia and Edinburg gravel roads in Shelby County. Cost of work is about $42,000.

DETROIT, MICH.—The contract has been awarded to the BARBER ASPHALT PAVING CO. for paving Warren Ave., from Hastings to Russell St. for $7,891; for paving Warren St., from Rispelle to the Detroit & Mackinac Ry. tracks to F. PORATH & SONS, for $4,750.

GRAND RAPIDS, MICH.—Bids are asked until Oct. 31 by Michael J. O'Meara, Clk. of Byron township for the construction of a mile roadway.

BELLEVILLE, ILL.—HILL & GAYNARD of East St. Louis, have been awarded the contract for paving Richland and Abend Sts., at $42,284. Other bids received were as follows: Reeb Bros., $41,483.23; Stolz & Gass. $44,952.10.

MATTOON, ILL.—The contract for paving Cottage Ave. with brick and concrete has been awarded to LOOMIS & ROSE for $8,135.

PARIS, ILL.—ALLEN JAY PARRISH has been awarded the contract for paving Monroe St., from Fifth to Division St., for $8,668. Other bids received were as follows: Morrisey & Porter, $9,000; R. A. Baum, $8,682.

BROOKFIELD (Congress Park post-office), ILL.—The Board of Local Improvements has awarded the contract to the WESTERN ENGINEERING CO., of Chicago for $19,900 for constructing 18,355 sq. yds. of cement sidewalks. Bids were opened Sept. 11.

LAKE FOREST, ILL.—It is reported that the contract for constructing 4,864 ft. of macadam pavement has been awarded to A. E. PRICE, Chicago St., Elgin, Ill.

OTTUMWA, IOWA.—Bids are asked until Oct. 1 by the City Clerk for paving portions of Fourth and College Sts., with asphalt upon a 6-in. concrete foundation; also constructing artificial stone combined curb and gutter on above streets.

INDEPENDENCE, KAN. — DELANE & CO., of Iola, have been awarded the contract for about $30,000 worth of paving in this city.

OMAHA, NEB.—Bids are asked by D. M. Haverly, County Clk., until noon, Oct. 10 for grading 19,000 cu. yds. on Calhoun road.

FARGO, N. DAK.—Bids are asked until 6 p. m., Oct. 1, by N. C. Morgan, City Auditor, for repaving Eighth St., south from Front St. to Ninth Ave. South.

ST. JOSEPH, MO.—The following bid for paving Twelfth St. from Lincoln to Powell St. has been received by the Board of Public Works. Phoenix Brick & Construction Co., $1.40 a sq. yd.

BARTLESVILLE, IND. T.—A $30,000 bond issue will be provided for paving seven blocks in the business portion of the city. J. H. Mullen is City Recorder.

CHICKASHA, IND. T.—The CLEVELAND (OHIO) TRINIDAD PAVING CO. has been awarded the contract at $49,103 for paving Chickasha Ave. and Third St.

DENISON, TEX.—R. I. Parks has been selected as City and Sewer Engineer and is preparing plans and specifications for about 20,000 sq. yds. of vitrified brick paving on Main St.

SEATTLE, WASH.—The following contracts have been awarded for paving various streets in this city: Washington St., from Third Ave. south to Fourth: BARBER ASPHALT CO, $5,451.80. 31st Ave., T. L. PETERSON, $11,510. Eastlake Ave., from Denny Way to Roy St., BARBER ASPHALT CO., $20,640.45. Seneca St., from First to Second Aves, SPARGER CONCRETE CO., $5,735.12. Spring St., from First to Second Aves, SPARGER CONCRETE CO., $5,787.62.

BERKELEY, CAL. — The Trustees have adopted report of Street Committee to macadamize Sacramento St., from Virginia St. to Addison, and Fourth St., from University Ave. to Dwight Way.

SACRAMENTO, CAL.—H. DOHN has been awarded the contract for constructing a macadam roadway on alley between G and H Sts., from 14th to 15th St. H. J. Desmond, Clk. of Bd.

PASADENA, CAL.—The Barber Asphalt & Paving Co. has been awarded the contract to pave North Fair Oaks Ave.

PRINCE ALBERT, SASK.—The City Council gives notice of its intention to construct granolithic sidewalks on Central Ave., cost $12,700, and on First Ave. west, cost $4,263.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

WATERVILLE, ME.—They Keyes Pulp Pie Plate Co. is to enlarge its plant here from a capacity of 210,000 plates a day to 800,000. Two buildings are to be erected, a 1-story, 100 × 40 ft, and also a 1-story 196 × 100 ft.

HOLYOKE, MASS.—The American Writing Paper Co. is to erect a paper factory here at a cost of $700,000. It is to consist of six brick buildings with concrete foundations, of the following dimensions: One building 300 × 66 ft., one building 280 × 72 ft., two buildings 150 × 66 ft., all four stories in height, and two buildings 216 × 72 ft. three stories in height. These will be supplemented with a new power-house and steam boiler plant adequate to furnish power for the entire works.

NEW BEDFORD, MASS.—Harding, Whitman & Co., of Boston, are having plans prepared and submitted to local contractors for a yarn mill, 700 × 130 ft.

NEW YORK, N. Y.—The Ridgway Co., Union Sq., has made the announcement that it will equip its own manufacturing plant for Everybody's Magazine.

R. T. Rasmussen, Arch., 30 Graham Ave., Boro. of Brooklyn, has plans for a 6-story brick, stone and concrete factory building, 52 × 96 ft., for Balleisen & Wexler, 11 Graham Ave. Estimated cost, $60,000.

Plans have been prepared by G. Erda, Arch., 795 Manhattan Ave., Boro. of Brooklyn, for a 3-story brick and stone factory, 60 × 160 ft., to be erected at Java and Provost Sts., at a cost of $5,000, for P. Bierschenck.

Axel S. Hedman, 371 Fulton St., Boro. of Brooklyn, has plans for a 2-story brick and stone factory, 38 × 90 ft., to cost $12,000, for J. Schaffer. To be erected on Sedgwick St., near Columbia.

GLOVERSVILLE, N. Y.—William Lefi will erect a 4-story brick glove factory here.

PASSAIC, N. J.—Three buildings are being added to the plant of the Standard Table Oilcloth Co.'s works at a cost of about $200,000. The structures are wholly of concrete and steel, and cover an area of 94,000 sq. ft. They will be used in the manufacture of oilcloth and for storing purposes.

LLANERCH, PA.—Bids are asked by the Philadelphia & West Chester Traction Co. for a car barn and car shops. It is to be a 1-story brick, steel and concrete building, 120 × 215 ft., of fireproof construction. H. Hayes Aikens, Arcade Bldg., Philadelphia, is Pur. Agt.

PHILADELPHIA, PA. — GEORGE H. SHIESK has been awarded the contract for a 2-story brick and stone factory for Kelly & Flynn at Frankfort. Power equipment and special machinery will be installed.

SHAMOKIN, PA.—The Croninger Packing Co. is having plans prepared for a packing house, cold storage and ice manufacturing plant at this place. It is to be a 4-story steel, brick and concrete building, 60 × 100 ft. Ice machines and complete equipment for slaughter house will be installled.

ALLEGHENY, PA.—The Western Electric Co., of New York, will build a $75,000 factory in this city, which is to be the principal distributing point for its products between New York and Chicago.

BALTIMORE, MD.—The Southern Cash Register Co. has been incorporated with capital stock of $50,000 to manufacture cash registers and other specialties by Henry S. Dulaney, 517 West Lombard St.; Arthur S. Dulaney, 2321 Madison Ave.; Milton W. Lucy, 307 West Baltimore St.; Charles A. Lucy and Samuel S. Field.

Bids are asked by the Darley Park Brewing Co. for a 4-story brick, steel and concrete addition to its brewery, to be of fireproof construction. New equipment for malt house is to be installed.

WASHINGTON, D. C.—The Washington Cold Storage & Ice Mfg. Co. will have plans prepared for brick, stone and steel cold storage and ice manufacturing plant to be located at Twelfth and F Sts. To be of fireproof construction. Complete ice and refrigerating machinery and power plant will be installed. Estimated cost, [illegible]. The company was recently incorporated with Wm. V. Cox, 509 Seventh St., N. W., Pres.; E. O. Whitford, 6 Wholesale Row, Vice-Pres., and F. G. Wilkins, 1225 Roanoke Ave., N. W., Secy.

NORFOLK, VA.—R. M. [illegible] has been awarded contract to erect building for Consolvo & Cheshire, to be equipped as steam laundry, at a cost of $60,000.

WEBSTER SPRINGS, W. VA.—The Camden Lumber Co. will operate a band-saw mill of 30,000 feet capacity. A building 32 × 100 ft. will be erected. About [illegible] will be invested; Clark Bros. are Archs. and Engrs.-in-Charge. Aaron Johnston is Vice-Pres. and Gen. Mgr.

STATEVILLE, N. C.—It is proposed to build a $100,000 cotton mill to be run by electricity. Subscriptions are being made in support of the enterprise.

HIGH POINT, N. C.—The Marsh Furniture Co. will erect two iron buildings, one 50 × 100 ft. and other 40 × 120 ft., to be used as a furniture factory. Estimated cost, $15,000. J. W. Harris is Pres.; J. J. [illegible] is Vice-Pres., and J. E. Marsh is Secy. and Treas.

ANNISTON, ALA—The FLYNT BUILDING & CONSTRUCTION CO., of Palmer, Mass., will build at once for the American Net & Twine Co. a new mill north of their present plant on the northern outskirts of the city, the contract providing for an outlay of between $300,000 and $400,000. This company is at present operating a mill of 5,000 spindles, and the new mill, of 10,000 spindles, will be twice as large, thus making the American Net & Twine mills the largest cotton spinning industry in Anniston. While the mill plant itself will be constructed by the Flynt Building & Construction Co., the cottages, warehouses and other buildings will be let to local contractors, bids for which will be asked within a few days. It is said that these cottages will be the most modern and best constructed of any in the South.

BRIDGEPORT, ALA.—It is reported that the De Loach Mill Mfg. Co. will move from Atlanta, Ga., to this city, where it will erect a large plant.

MEMPHIS, TENN.—Chighizola, Hanker & Cairns, Archs., are taking bids on two 1-story brick buildings to be erected by the Tennessee Stave & Box Co. The main building will be 80 × 200 ft., and the power-house 30 × 80 ft. About $75,000 will be expended. The company has a capital stock of $200,000, and will manufacture staves, boxes and barrels.

The American Bag Co., recently organized with $250,000 capital stock, has purchased a tract of land in South Memphis on which to erect plant for the manufacture of cotton and burlap bags. Factory building will have a frontage of 200 ft., of concrete construction, to be combination 2 and 3-story structure, will be erected at a cost of $125,000. Fifty cottages, covering space 650 × 150 ft. will also be erected for the employes. It is also proposed to erect bleachery for finishing cloth. Shaw & Pfeil, Archs., 203 Rogers Bldg., have plans for the building. L. D. Falls is Pres.; W. H. Carter, Vice-Pres., and Hill Bond, Secy.-Treas.

BEECH GROVE, IND.—LYNN B. MILLIKAN, of Indianapolis, has been awarded a contract for the construction of the Big Four machine and erecting shops at the company's equipment plant at this place. Consideration, $447,100. The new building will be 572 × 314 ft. It will be of concrete, steel and brick construction, with slate and copper roof. Plans for several more buildings are most completed and bids will be asked shortly by Wm. Gastang, Supt. of Motive Power.

BRAZIL, IND.—The Clay Products Co. has incorporated with a capital of $50,000. The company will construct and equip an immense plant for the manufacture of clay products, consisting of brick, tile, conduits, sewer pipe hollow brick and other clay products. Henry H. Titsworth is Pres.

INDIANAPOLIS, IND.—The Capital Auto Co. has incorporated with capital of $25,000. The company will erect, establish and equip a plant for the manufacture of automobiles, supplies, tools and appliances. Russe J. Irwin is Pres.

LINTON, IND.—The Linton Rolling Mill Co. has been incorporated to manufacture, roll and produce iron, steel and deal in iron products. The capital stock is $60,000. The company will erect a modern rolling mill. Job Freeman, Joseph Moss and W. J. Hamilton are Directors.

MORRISTOWN, IND.—The Porter Manufacturing Co. will establish a large incubator factory here at once. C. T. Williams and W. M. Pierson are Directors.

PERU, IND.—The Model Automobile Co. has been incorporated with a capital stock of $50,000. The company will establish and equip a plant to manufacture automobiles and automobile supplies and parts. Albert Kittner, Milton Kraus and W. S. Meuer are Directors.

WOLFLAKE, IND.—Wolflake Portland Cement Co. has been incorporated to erect and equip an immense cement plant. The capital is $50,000. Chas. F. Knowlton is Pres.

DETROIT, MICH.—The Detroit Bag Co. will erect a modern bag factory on the property it recently purchased at McKinstry Ave. and Annexation St., near the Michigan Central R. R.

GUTHRIE, OKLA.—The Central Ice & Cold Storage Co., of Guthrie and Decatur, Ill., capital $125,000, has been chartered here. The incorporators are T. H. Hoehn and John Hoehn, of Decatur; G. V. Pattison, of Guthrie.

MILWAUKEE, WIS.—The F. Mayer Boot & Shoe Co. is preparing to build a large building on First St., between Walnut and Sherman Sts., as an addition to its factory. The building will cost about $150,000, and will be erected upon a piece of property, 50 × 150 ft., recently acquired by the company.

LOS ANGELES, CAL.—Cohn, Goldwater & Co. are preparing to erect a 4-story reinforced concrete factory at a cost of $50,000. It is to be erected at Twelfth and San Julian Sts.

MARYSVILLE, CAL.—It is reported that the Union and National Ice Cos. had agents here recently negotiating for lots on which to erect a large ice and cold storage plant to supply ice to all cities of Northern California and to store fruits during the canning season. The plant will have a capacity of 100 tons of ice daily.

RENO, NEV.—A company has been formed here, with a capital of $125,000, for the purpose of erecting an ice factory in this city. M. Morgo is Pres. and D. Blevins is Secy.

MONTMORENCY FALLS, QUE.—The Dominion Textile Co., which recently absorbed the leading Canadian cotton companies, will build large extensions to the yarn mills at this place. The company will increase its output from 2,000,000 to 4,000,000 pounds of yarn a year.

BERLIN, ONT.—The Town Council is negotiating with a company for the establishment of agricultural machinery manufacturing works which is to cost $300,000.

BRANTFORD, ONT.—The American Machine Telephone Co., Ltd., has been incorporated with a capital of $450,000, with H. N. Baker, A. E. Knox and T. E. Maulden, all of Toronto, as directors.

SMITH'S FALLS, ONT.—The Smith's Falls Malleable Castings Co., Ltd., has purchased a site, with ample frontage on Rideau River, containing about twelve acres of land in this city, upon which it will build a plant to duplicate its present one and will equip it with the best materials for the production of malleable and steel castings. Several hundred additional hands will be employed. William H. Frost is Pres., at Smith's Falls.

PORT MOODY, B. C.—John McLean has purchased a site on the waterfront where he purposes erecting a new shingle mill to cost about $10,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SUBWAY AND ELEVATED LOOPS.—New York, N. Y.—At the recent meeting of the Plan and Scope Committee of the Rapid Transit Commission of New York, George S. Rice, Ch. Engr., laid before the committee his report on the proposed plan to build both an elevated loop and a subway loop, to relieve the congestion at the Manhattan end of the Brooklyn Bridge. Herman A. Metz, City Comptroller, approved Mr. Rice's plan for a subway loop, but stated that the main thing was to give relief as soon as possible. If an elevated loop is built, he declared, it should be only a temporary arrangement, and a definite time should be set for its removal. As contemplated in Mr. Rice's report, the present elevated structure from the terminus at the Brooklyn Bridge as far north as Delancey St. would have to be constructed into a double-decker, with the main lines on the lower tier and the loop lines on the upper. A new station would be built at Delancey and Allen Sts. and at Park Row and Duane St. The total cost of the improvement, including damage to abutting property, is estimated at $3,500,000. The cost of the various loops and connections is estimated at $16,080,000. The estimates for the various proposed subway connections are as follows:

BOROUGH OF MANHATTAN.

A 4-track subway from the Williamsburg Bridge terminal, which is now under construction, to the Brooklyn Bridge	$3,400,000
Changes of Brooklyn Bridge approach to connect with subway..	750,000
A 2-track subway from the Brooklyn Bridge through William St. to a point north of and near Wall St.	700,000
A 2-track subway on Grand St. and Desbrosses St. from Centre St. to Washington St.	1,530,000
A 2-track subway in Liberty St. and Washington St. from William St. to Desbrosses St.	2,100,000
A 2-track subway in Washington St. from Desbrosses St. through Greenwich St., Ninth Ave., 14th St., University Pl., Washington Sq. East, Wooster St. and Canal St. to Centre St..	5,600,000
Easements (estimated)	2,000,000
Total	$16,080,000

BOROUGH OF BROOKLYN.

A 2-track connection from the elevated tracks on the Williamsburg Bridge to the subway at the intersection of Bedford Ave. and Broadway	$420,000
A 4-track subway in Bedford Ave. and Bedford Ave. extension, from Broadway to Lafayette Ave.	2,520,000
A 4-track subway in Lafayette Ave. from Bedford Ave. to Fulton St.	2,050,000
A 4-track subway in Fulton St. from Lafayette Ave. through Flatbush Ave. extension, Willoughby St. and Fulton St. to Myrtle Ave.	1,830,000
A 2-track connection from the subway at Myrtle Ave. and Fulton St. to the elevated tracks on the Brooklyn Bridge	410,000
Easements (estimated)	200,000
Total	$7,430,000

CASTINGS.—New York, N. Y.—Bids are asked by John McG. Woodbury, Comr. Street Cleaning, until noon, Oct. 2, for furnishing and delivering scraper steel and malleable iron "T" castings.

UNDERGROUND CONDUITS.—South Bend, Ind.—The Home Telephone Co. has decided to lay about a mile of underground conduits. Theo. Thorward is Pres. and Mgr.

DRAIN.—Brookville, Ind.—Bids are asked by Commissioners of Franklin County until 10 a. m., Oct. 8, for the construction of a large public drain. Frank P. Flinn, Supt. of Construction.

RIVER CHANNEL.—Des Moines, Iowa.—Surveyors under direction of the City Engineer are locating new channel of the Raccoon River at the confluence of Raccoon and Des Moines Rivers.

CANAL WORK.—Hazen, Nev.—No bids were received Sept. 15 at Hazen, Nev., by the Reclamation Service for the construction of the lateral irrigation ditches on the Truckee-Carson project, Nev.

JETTIES.—Asbury Park, N. J.—Plans and estimates are wanted by the Public Grounds Commission for building jetties of concrete or other material to protect and build up the beach front at Asbury Park. (Advertised, Engineering News.)

DITCHES.—Storm Lake, Iowa.—Bids are asked until Oct. 3 by the Board County Supervisors at the office of the County Audr. for constructing ditches in Drainage Dist. No. 4, Sections 1 to 6, consecutively, requiring about 1,604,000 cu. yds. L. A. Torkeelson., Chn.

SUBWAY.—Auburn, N. Y.—Three bids were received on Sept. 18 for constructing subways in Genesee St. The approximate quantities are: 70,000 duct ft. of ducts; 18,000 lin. ft. 3-in. distribution pipe, manholes, etc. J. Walter Ackerman, City Engr. The lowest bid was $19,760.

CANAL.—Grand Rapids, Wis.—The Woods County Drainage Commission has awarded to A. G. GILMORE & SONS, of Toledo, Ohio, the contract for constructing the main canal, and to J. B. ARPIN, of Grand Rapids, contract for the laterals. Total cost of work, about $50,000.

DAM, EXCAVATION. — North Yakima, Wash.—Bids are asked until 2 p. m., Nov. 15, by U. S. Reclamation Service, at Portland, Ore., for construction of a dam at outlet of Bumping Lake, Wash., involving about 182,000 cu. yds. excavation, etc. (Advertised, Engineering News.)

SUBWAYS.—Rochester, N. Y.—E. A. Fisher, City Engr., is reported to have completed and forwarded to Geo. W. Aldridge, State R. R. Comr., at Albany, estimates for a subway at Culver Road, and one at East Boulevard. The Culver Road subway will cost between $75,000 and $100,000.

AMUSEMENT PARK.—Albany, N. Y.—Max Rosen, Mgr. of Altro-Park Amusement Co., Albany, has announced that the company has purchased 15 acres of land adjoining Altro-Park, and will enlarge and improve the park the coming winter. The cost of the proposed improvements is estimated at $75,000.

RAILWAY TERMINALS.—Brunswick, Ga.—The Southern Railway is said to be considering the development of its water-front property at Brunswick. The company recently planned to expend between $50,000 and $75,000 on improvements at its Turtle River terminals, but it is reported that plan will be changed. D. W. Lum, Washington, D. C., is Ch. Engr.

LOCKERS, ETC.—Buffalo, N. Y.—The Board of Supervisors has voted to give the contract to the ART METAL CONSTRUCTION CO., of Jamestown, for furnishing and installing lockers, gun racks, etc., for the new 65th Regiment Armory at its bid of $33,700, the lowest of the several received.

CANAL, DAMS, TUNNELS, ETC.—North Yakima, Wash.—Bids are asked until Nov. 15, 2 p. m., by U. S. Reclamation Service, Portland, Ore., for construction of about twelve miles of main canal in the Tieton canyon, near North Yakima, with diverting dam, headworks, tunnels, etc. (Advertised, Engineering News.)

MONUMENT.—Penn Yan, N. Y.—At the general election the taxpayers will vote on the proposition to raise $3,000 toward paying a soldiers' and sailors' monument in Court House Park. The proposed monument will cost $10,000, which will all be provided by private means, except this $3,000. It is expected that the vote will be favorable.

SHAFTS.—Biwabik, Minn.—The FOUNDATION CO., 35 Nassau St., New York, has been awarded contract for constructing two mining shafts in very difficult ground for Pickands, Mather & Co., of Duluth. The shafts will both be built in reinforced concrete steel construction, of a special design originated by the engineer of the Foundation Company.

CANAL WORK.—Belle Fourche, S. Dak.—The Secretary of the Interior has granted an extension of time of 45 days from Sept. 1, 1906, to Orman & Crook, contractors, for the completion of their contract for the construction of dam and canals, Belle Fourche irrigation project, S. Dak. This extension was necessitated on account of the fact that the work was greatly hampered during the early part of the season by rainy weather and scarcity of labor.

CANAL WORK.—Mitchell, Neb.—The Secretary of the Interior has executed a contract with the Deadwood Construction Co., of Deadwood, S. Dak., providing for the construction and completion of Schedule 2 of the distributing system, Interstate Canal, North Platte irrigation project, Neb.-Wyo. This contract covers the earthwork on about 11 miles of laterals, involving the excavation of 40,100 cu. yds. of materials. The Deadwood Construction Co. will receive $8,175 for the work.

TUNNEL.—Detroit, Mich.—The BUTLER BROS. HOFF CO., 1170 Broadway, New York, the contractor for the Detroit River tunnel for the Michigan Central Ry., advises us that all supplies for the Detroit River tunnel have practically been bought and subcontracts let. All inquiries regarding this tunnel should be addressed to the company at 605 Whitney Bldg., Detroit, Mich. The design as adopted was a modified design of Scheme "A," submitted by Olaf Hoff, M. Am. Soc. C. E., Vice-Pres. of this company.

CEMENT.—Portland, Ore.—Proposals for furnishing 27,000 bbls. of Portland cement for use of the Tieton and Sunnyside irrigation projects, Wash., were opened Sept. 18, at Portland, Ore.: Pacific Portland Cement Co., $2 per bbl., f. o. b. cars at Tolenas, Cal.; Illinois Steel Co., $1.45 per bbl., f. o. b. cars at factory, South Chicago, Ill.; West Portland Cement Co., $2.85 per bbl., f. o. b. cars, Portland, Ore.; Crowe & Co., Seattle, Wash., $3.30 per bbl., f. o. b. cars, Seattle or Tacoma, Wash. This bid subject to arrival of sailing vessels.

MISCELLANEOUS CONTRACTING.—Gulfport, Miss.—The Gulf Construction Co. has been incorporated by W. G. May, of Pass Christian; W. W. Hungerford, M. C. Lott and James B. Cable, of Long Beach; W. A. S. Wheeler, a Natchez capitalist, and W. C. McGehee. The purpose set forth is for building and maintaining railroads, wharves, piers, elevators, warehouses and terminals, to buy and sell real estate, or for any and all purposes necessary to the proper prosecution of its business. The capital stock is $100,000. Headquarters are at Gulfport.

IRON MINES, STEEL PLANTS.—Birmingham, Ala.—The Tennessee Coal, Iron & Railroad Co. has called a meeting of stockholders, to be held at Tracy City, Tenn., on Oct. 16, to consider increasing capital stock from $30,000,000 to $50,000,000. This proposition is understood to contemplate the expenditure of the $20,000,000 mainly for future betterments and extensions to the company's present iron mines, iron furnaces, steel works and other industrial plants. General offices are at Birmingham. New York office is at 100 Broadway. John A. Topping is Pres.

LEVEE.—New Orleans, La.—Bids were received on Sept. 14 by Capt. J. F. McIndoe, Engrs., for levee construction. The following bids were the lowest on each section, and were recommended for acceptance: Gomez Levee—Robert T. Clark & Co., Natchez, Miss., 18 cts. a cu. yd. Total, $3,474. Burnside Levee—H. F. Garbish, Vicksburg, Miss., 16¾ cts. Total, $3,046. Union Levee—H. F. Garbish, 15¾ cts. Total, $16,021. Sarpy Levee—E. P. Brady, Waggaman, La., 39 cts. Total, $10,374. Pecan Grove Levee—Hearin & Ryan, Baton Rouge, La., 14.99 cts. Total, $11,437.

CANAL WORK.—Williston, N. Dak.—The Secretary of the Interior has rejected the bid of Henry C. DeLaney, of Williston, N. Dak., in the sum of $166,289 for the construction of canals, ditches and structures under the Buford-Trenton irrigation project, N. Dak. The work involves the excavation of about 410,000 cu. yds. of earth and furnishing labor and material for a pumping station and various structures requiring about 140,000 ft. B. M., of lumber, about 2,000 cu. yds. of concrete and about 25,000 lbs. of structural steel. The above bid was the only one received, and was rejected as unreasonably high.

CANALS.—Albany, N. Y.—A. B. Fry, Ch. Engr. of the United States Treasury Service, a member of the Consulting Engineers' Board of the new Erie, Champlain and Oswego barge canals, has issued the following memoranda concerning the estimates, awards of contracts, etc.: "The total amount of contract work for which plans and specifications have been prepared by the state engineers' department and passed on and approved by the advisory board of consulting engineers up to Sept. 1, 1906, amounts to $22,644,418. There have been actually let twelve contracts, on which work is now proceeding. They are as follows: Erie Canal system, seven contracts, aggregating $5,866,285; Champlain Canal system, three contracts, $2,825,347, and the Oswego Canal system, one contract for $1,126,718."

DAM.—Cody, Wis.—The Secretary of the Interior has revoked his authorization of Sept. 15, for the completion by the Reclamation Service of the Shoshone dam, Wyoming, by force account, and has executed a contract with the United States Fidelity and Guaranty Co., of Baltimore, for the completion of the work. On Aug. 9, the Government officers took possession of the work and outfit of Prendergast & Clarkson, contractors on the Shoshone dam in northern Wyoming. This is one of the largest structures in the West, and the firm was not able to secure the necessary men and financial backing to carry them through the many discouragements incident to the work. The Secretary of the Interior, therefore, in accordance with the terms of the agreement, suspended their contract and authorized the continuance of the work by force account. The United States Fidelity & Guaranty Co. was surety on the bond of the defaulting contractors, and when they signified their willingness to take over and complete the work for the unpaid balance of the original contract price, the Secretary of the Interior decided to award them the contract, as it is not the policy of the Department to carry on work by force account where it can be practically done on reasonable terms by contract.

PNEUMATIC MAIL SERVICE.—Washington, D. C.—Bids were opened at the office of the Second Assistant Postmaster General, Washington, D. C., on Sept. 19, for the performance of mail service by pneumatic tubes or other similar devices at the following named cities for the term of nine years and eight months, from Nov. 1, 1906, to June 30, 1916, namely: Boston, Brooklyn, New York City, Philadelphia, Pittsburg, Baltimore, Cincinnati, Kansas City, Mo., and San Francisco; and at Chicago for the same term, and at St. Louis for the term of nine years, from July 1, 1907, to June 30, 1916. The bids include operation of existing tubes or construction and operation of new tubes, or operation of existing tubes and construction and operation of new ones. The bids were as follows (prices given being per annum): Chicago: Route No. 535,004, Chicago Postal Pneumatic Tube Co., Chicago, $305,371; conditional; same route, same company; $338,861; conditional; Route No. 535,005; same company, $163,081. St. Louis: Route No. 545,002, St. Louis Pneumatic Tube Co., $58,990; conditional. New York City: Route No. 507,001, New York Pneumatic Service Co., $467,800. Boston: Route No. 504,003, Boston Pneumatic Transit Co., $117,130. Brooklyn: Route No. 507,003; New York Pneumatic Service Co., $78,227. Philadelphia: Route No. 510,006; Philadelphia Pneumatic Transit Co., $137,520; alternate, $140,498. All the above companies bid $17,000 per mile a year. No bids were received for Pittsburg, Baltimore, Cincinnati, Kansas City, Mo., San Francisco, where there are now no systems in existence. Noted on Aug. 30.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWER SYSTEM, PUMPS.—St. Charles, Mo.—On Sept. 7 bids were received by C. H. Kansteiner, City Clerk, for constructing a sewer system and for constructing emergency pumping plants for same. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs. Itemized bids were as follows: (1) Municipal Construction Co., Kansas City, Mo.; (2) Rackliffe-Gibson Co., St. Joseph, Mo.; (3) H. H. Steed & Co., St. Charles; (4) J. F. McMahon, St. Louis; (5) W. F. HALL, Clinton, Mo.; (6) W. W. Cook & Son, Junction City, Kan.; (7) McIntire-Teese Construction Co., St. Louis; (8) N. S. Sherman, Oklahoma City, Okla.; (9) McQuaters Plumbing & Machine Co., Hillsboro, Tex.:

Bids for pumps were as follows: For outfall No. 1—(3) $1,600; (9) $1,525; (2) $1,250; (8) $1,292. For outfall No. 2—(3) $1,400; (9) $1,325; (2) $1,250; (8) $1,083. Bids were rejected.

BIDS RECEIVED ON SEPT. 7 FOR SEWER SYSTEM, PUMPS, AT ST. CHARLES, MO.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Excavation under 8 ft............	$0.30	$0.50	$0.25	$0.55	$0.40	$0.48	$0.25	$0.44	$0.45
" 8 ft.-12 ft..............	.60	.60	.35	.55	.60	.72	.32	.62	.75
" 12 ft.-16 ft..............	.75	.90	.50	.65	.70	.98	.40	.88	1.00
67,007 lin ft. 8-in. sewer pipe.....	.20	.28	.16	.20	.21	.25	.26	.22	.25
7,260 " 10-in. "	.30	.33	.20	.25	.27	.35	.30	.27	.36
4,666 " 12-in. "	.40	.40	.30	.32	.33¼	.45	.43	.38	.44
5,730 " 15-in. "	.50	.60	.45	.55	.47	.60	.58	.52	.59
4,000 6-in. on 8-in. Y's.........	.85	.75	.50	.40	.81	.35	.40	.80	.34
300 6-in. on 10-in. Y's.........	1.10	1.00	.70	.60	1.04	.50	.50	1.00	.47
200 6-in. on 12-in. Y's.........	1.35	1.05	.85	.75	1.28	.65	.65	1.20	.70
125 6-in. on 15-in. Y's.........	1.95	1.75	1.30	1.00	1.74	.95	1.00	1.60	1.15
202 manholes	35.00	45.00	40.00	45.00	30.00	35.00	40.00	30.00	38.00
68 flush tanks...............	62.00	70.00	75.00	89.00	70.00	67.00	70.00	66.00	60.00
10 lamp holes...............	8.00	8.00	10.00	10.00	10.00	9.50	5.00	6.00	9.00
10 cu. yds. concrete..........	10.00	8.00	6.50	7.00	8.50	8.00	8.00	10.00	7.55
700 " rock	2.90	3.50	3.00	3.00	2.50	3.00	3.00	3.50	3.50
700 lin ft. 16-in. c.-i. pipe.....	5.00	3.00	2.25	2.00	2.45	2.50	3.00	4.00	2.95
24 " 12-in. "	4.00	2.50	1.80	1.50	1.60	1.75	2.00	2.50	1.95
24 " 10-in. "	3.00	2.00	1.50	1.35	1.25	1.25	1.50	1.90	1.60
36 " 8-in. "	2.50	1.50	1.40	1.20	1.00	.90	1.10	1.34	1.25
15 cu. yds. loose rock fill.....	2.50	1.50	2.00	3.00	1.50	2.50	1.75	2.00	1.75
3,879 sq. yds. brick pavement...	.20	.50	.25	.40	.50	.35	.40	.40	.26
44,269 " macadam pavem't.	.30	.20	.12	.60	.20	.16	.05	.20	.18
Timber, per M.................	25.00	30.00	35.00	22.00	32.50	25.00	30.00	40.00	25.00
Time........	8 mos.	12 mos.	12 mos.	10 mos.	9 mos.	*	7 mos.	12 mos.	8 mos.
Total	**$77,500.00**	**$70,750.00**	**$73,768.00**	**$68,595.00**	**$65,600.00**	**$70,500.00**	**$73,608.58**	**$75,018.80**	**$69,601.00**

***150 working days.**

SEWERS.—South Omaha, Neb.—Bids were received, in detail, as follows, on Aug. 20, for construction of several sewers in South Omaha. E. M. Rohrbough is City Engr: (a) estimate of City Engineer; (b) Hannon & Craig, South Omaha; (C) National Construction Co., South Omaha; (d) Rackliffe-Gibson Construction Co.:

BIDS RECEIVED AT SO. OMAHA, NEB., FOR CONSTRUCTION OF SEVERAL SEWERS.

Jetter Creek main sewer—	(a)	(d)	(b)	(c)*
1,295 ft. 36-in. vitrified pipe	.....	$4.80	$3.99	$2.80
383 ft. 30-in. vitrified pipe	$3.10	3.80	3.00	2.70
314 ft. 24-in. vitrified pipe	3.00	2.10	2.44	1.87
323 ft. 18-in. vitrified pipe	1.50	1.50	1.24	1.30
823 ft. 54-in. reinforced pipe	.....	6.55	......	5.37
1,134 ft. 48-in. reinforced pipe	.....	5.15	4.99	4.40
527 ft. 42-in. reinforced pipe	.....	4.88	4.39	3.37
1,295 ft. 36-in. reinforced pipe	.....	4.25	3.99	2.80
383 ft. 30-in. reinforced pipe	.....	3.35	3.10	2.70
314 ft. 24-in. reinforced pipe	.....	2.25	.....	1.87
1,638 ft. 6½-ft. concrete sewer	9.60	10.00	9.58	10.27
766 ft. 6-ft. concrete sewer	8.00	8.60	7.74	7.75
656 ft. 5½-ft. concrete sewer	7.60	8.25	7.39	7.65
823 ft. 4½-ft. concrete sewer	5.70	5.60	5.36	5.37
1,134 ft. 4-ft. concrete sewer	5.00	4.00	4.99	4.40
527 ft. 3½-ft. concrete sewer	4.50	3.60	4.39	3.37
1,295 ft. 3-ft. concrete sewer	4.00	3.18	3.99	2.80
383 ft. 2½-ft. concrete sewer	.....	2.65	3.10	2.70
190 ft. manholes, 1st 10 ft	3.00	3.00	3.00	3.00
59 ft. manholes, 2d 10 ft	3.50	4.00	3.25	3.50
20,000 lbs. cast iron	.04	.04	.04	.04
lbs. wrought iron	.05	.05	.05	.05
100 cu. yds. concrete, extra	7.00	7.00	7.00	7.00
cu. yds. broken stone, extra	3.00	3.00	3.00	3.00
cu. yds. sand	1.50	1.50	1.50	1.50
lin. ft. piling	.40	.40	.40	.40
ft. B. M. lumber, pine	35.00	35.00	35.00	35.00
ft. B. M. lumber, oak	35.00	35.00	35.00	35.00
cu. yds. grading, extra	.20	.20	.20	.20
Totals	$49,641	$48,005	$48,597	$46,906

*Awarded contract on Sept. 7.

N St. Gulch main sewer—	(a)	(d)	(b)*	(c)
1,000 ft. 7-ft. concrete sewer	$10.00	$10.00	$9.58	$10.00
1,556 ft. 6½-ft. concrete sewer	9.50	10.00	9.39	9.50
790 ft. 6-ft. concrete sewer	8.50	9.50	8.39	8.50
72 ft. manholes, 1st 10 ft	2.20	3.00	3.00	3.00
30 ft. manholes 2d 10 ft	3.30	3.00	3.00	3.00
17 ft. manholes, 3d 10 ft	3.30	3.00	3.25	3.50
10 ft. manholes, 4th 10 ft	4.00	4.00	3.50	4.00
10 ft. manholes, 5th 10 ft	4.00	5.00	3.50	4.00
10 ft. manholes, 6th 10 ft	4.00	6.00	4.00	4.00
10 ft. manholes, 7th 10 ft	4.00	7.00	4.00	4.00
8,000 lbs. cast iron	.04	.04	.04	.04
lbs. wrought iron	.05	.05	.05	.05
100 cu. yds. concrete, extra	7.00	7.00	7.00	7.00
cu. yds. broken stone, extra	3.00	3.00	3.00	3.00
cu. yds. sand	1.50	1.50	1.50	1.50
lin. ft. piling	.40	.40	.40	.40
ft. B. M. lumber, pine	35.00	35.00	35.00	35.00
ft. B. M. lumber, oak	35.00	35.00	35.00	35.00
cu. yds. grading, extra	.20	.20	.20	.20
Totals	$32,990	$34,662	$32,350	$33,042

*Awarded contract on Sept. 7.

North Branch N. St. Gulch main sewer—	(a)	(c)	(b)*
1,690 ft. 36-in. vitrified pipe	.....	$4.70	$4.19
1,541 ft. 30-in. vitrified pipe	.....	4.00	3.92
1,541 ft. 30-in. reinforced pipe	.....	4.00	3.92
1,690 ft. 36-in. reinforced pipe	.....	4.70	4.19
585 ft. 42-in. reinforced pipe	.....	4.80	4.69
1,541 ft. 2½-ft. concrete sewer	$4.25	4.00	3.92
1,690 ft. 3-ft. concrete sewer	4.50	4.70	4.19
585 ft. 3½-ft. concrete sewer	4.80	4.80	4.69
82 ft. manholes, 1st 10 ft	2.50	3.00	3.00
60 ft. manholes, 2d 10 ft	4.00	3.50	3.25
52 ft. manholes, 3d 10 ft	4.00	4.00	3.25
21 ft. manholes, 4th 10 ft	4.00	4.00	3.50
10 ft. manholes, 5th 10 ft	4.00	4.00	4.00
9,000 lbs. cast iron	.04	.04	.04
lbs. wrought iron	.05	.05	.05
40 cu. yds. concrete, extra	7.00	7.00	7.00
cu. yds. broken stone, extra	3.00	3.00	3.00
cu. yds. sand	1.50	1.50	1.50
lin. ft. piling	.40	.40	.40
ft. B. M. lumber, pine	35.00	35.00	35.00
ft. B. M. lumber, oak	35.00	35.00	35.00
cu. yds. grading, extra	.20	.20	.20
Totals	$18,379	$18,343	$17,229

*Awarded contract on Sept. 7.

Mud Creek main sewer—	(a)	(b)	(c)*
2,040 ft. 8¾-ft. concrete sewer	$13.50	$10.07	$12.50
1,908 ft. 11-ft. concrete sewer	21.00	20.07	22.80
1,421 ft. 10½-ft. concrete sewer	20.00	19.53	18.88
28 ft. 6½-ft. concrete sewer	8.00	10.00	10.89
100 ft. 8-ft. concrete sewer "a"	19.00	30.57	22.99
408 ft. 10½-ft. concrete sewer "b"	32.00	41.11	32.67
601 ft. 8-ft. concrete sewer	14.00	14.99	15.20
1,987 ft. 8-ft. concrete sewer "B"	23.00	24.04	20.79
98 ft. manholes, 1st 10 ft	3.00	3.00	3.00
29 ft. manholes, 2d 10 ft	3.50	3.50	3.50
20,000 lbs. cast iron	.04	.04	.04
lbs. wrought iron	.05	.05	...
110 cu. yds. concrete, extra	7.00	7.00	7.00
cu yds. broken stone, extra	3.00	3.00	3.00
cu. yds. sand, extra	1.50	1.50	1.50
900 lin. ft. piling	.40	.40	.40
7,000 ft. B. M. lumber, pine	35.00	35.00	35.00
ft. B. M. lumber, oak	35.00	35.00	35.00
2,000 cu. yds. grading, extra	.20	.20	.20
Totals	$168,293	$166,445	$165,180

*Awarded contract on Sept. 7.

NOTE.—"a" = section under R. R. track. "b" = section under R. R. tracks. "B" = tunnel section.

PAVING.—Albany, N. Y.—Bids were received on Sept. 17 by the Board of Contract and Supply for improving Western Ave. In detail the bids were as follows. The bidders were: (a) Hudson Valley Concrete Building Co.; (b) Robert Schaefer; (c) Alonzo Schaupp, all of Albany:

BIDS RECEIVED SEPT. 17 AT ALBANY, N. Y., FOR MACADAM PAVING.

	(a)	(b)	(c)
30,800 cu. yds. excavation	$0.45	$0.48	$0.43
*20,000 sq. yds. broken stone macadam; or	1.10	1.40	1.31
†20,000 sq. yds. gravel macadam	.65	1.20	1.16
100 cu. yds. concrete	9.00	7.00	8.00
80 lin. ft. 8-in. pipe	.70	.75	.85
70 " 12-in. "	.80	1.00	1.10
230 " 6-in. "	.60	.65	.70
1,400 lbs. steel bars	.05	.05	.05
Days to complete	100	165	150
	*$37,580 †$28,580	*$44,658 †$40,658	*$41,870 †$38,870

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

PILES.—Panama, C. Z.—Bids were opened Sept. 25 at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for 4,000 piles, diameter not less than 14 ins. nor more than 20 ins.—500, length 25 ft.; 1,000, length 30 ft.; 1,000, length 40 ft.; 1,000, length 50 ft.; 500, length 60 ft.: A. S. Bacon & Sons, Savannah, $44,000, 90 to 123 days; Central Coal & Coke Co., Kansas City, Mo., $48,750, 60-120 days; Gamwell & Wheeler, Seattle, Wash., $51,781, 20-120 days; Wm. D. Gill & Sons, Baltimore, $52,481, 100-175 days; J. K. Joyce, Chicago, $40,218, 90 days; Manhattan Supply Co., New York, $41,990, 40-75 days (bid withdrawn); Robt. R. Sizer & Co., Jacksonville, Fla., $14,600, 30-90 days, f. o. b. Jacksonville; Southern Creosoting Co., Slidell, La., $37,375, 60-240 days; Southern Sawmill Co., New Orleans, $33,641, 15-45 days; Chicago Lumber & Coal Co., St. Louis, $39,431, 29-69 days, discount of 8% if paid in 30 days after delivery; Long Bell Lumber Co., Kansas City, Mo., $45,500, 60-90 days.

CHINESE LABOR.—Panama.—Bids were opened on Sept. 20 at the Office of Administration, Isthmian Canal Comn., Washington, D. C., for furnishing 2,500 Chinese laborers for work on the Panama Canal, in accordance with advertisement and specifications issued Aug. 21. The specifications provide that the contractor transport the laborers to and from the Isthmus, house them in houses provided by the Commission and feed them during their stay there. A bond or certified check for $50,000 is required with the proposal, a bond for $100,000 when contract is signed, and a bond of $50,000 by the Panama Government to insure the removal of the laborers from the Isthmus. The contract is to be for a period of not less than two years, allowing the government the option of removal, and the contractor engages to furnish additional laborers as required. Four bids were received, two of them being in accord with specifications, as follows: China-America Contracting Co., by James R. Morse, Pres. and Treas., Englewood, N. J., and Frederic L. Carter, Secy., Babylon (L. I.), N. Y.: Common laborers, 10 cts. per hour, U. S. gold; Chinese foremen, 20 cts.; Chinese interpreters, 20 cts.; Chinese physicians, 40 cts.; Chinese cooks, 15 cts.; Chinese barbers, 15 cts. The same schedule of prices will apply to laborers exceeding 2,500. Bid unconditional. Joel Julian Ruben, McGill Bldg., Washington, D. C.: First 2,500 Chinese—Laborers, 11 cts., U. S. gold, per hour; foremen, 40 cts.; physicians, 60 cts.; interpreters, 60 cts.; cooks, 30 cts.; barbers, 30 cts. Exceeding 2,500 laborers as follows: First additional 1,000, 11 cts. per hour; second, 10⅞ cts.; third, 10¾ cts.; fourth, 10⅝ cts.; fifth, 10½ cts.; sixth, 10⅜ cts.; seventh, 10¼ cts.; eighth, 10 cts.; ninth, 9¾ cts.; tenth, 9½ cts.; eleventh, 9¼ cts.; remainder up to 15,000, 9 cts. Bid unconditional. International Contracting Co., Washington, D. C., by Carroll Purman, Pres., and Eugene S. Watson, Secy. Prices calculated on basis of total number of hours work per day, taking laborers' work as unit and calculating physicians at three times laborers' time, assistant physicians twice, interpreters 2½, foremen 1½, cooks, etc., same. Where total number of hours per day is less than 50,000, 13 cts., gold, per hour; between 50,000 and 100,000, 12½ cts.; over 100,000, 12 cts. Bid informal, unaccompanied by bond or check. Wah Me Lee Hing Co., Baltimore, bid conditional: Laborers, cooks, barbers, 12½ cts. per hour; foremen and interpreters, 15 cts.; doctors, 25 cts.; all Chinese while in transit, 7 cts. Protest was entered by the America-China Contracting Co. and by Joel Julian Ruben against the informal bids of the International Contracting Co. and the Wa Me Lee Hing Company.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

WATER POWER.—Michoacan.—Antonio P. Carranza, a Mexico City lawyer, has applied to the Department of Fomento for a concession to use 4,000 liters of water a second for motive power from the Angulo River, in the state of Michoacan.

CARRIAGE FACTORY.—Monterey, Nuevo Leon.—It is reported that Geo. B. Warden, an importer of carriages and harness of Monterey, will erect a factory there, with a minimum expenditure of $100,000. The raw material will, for the most part, be imported from the United States.

SMELTER AND RAILWAY.—Jalisco.—The Carrizo Mining Co., owning copper properties near Ameca, state of Jalisco, contemplates building a large smelter and a narrow-gage railway. The principal stockholders are Whit Gallbraith, of Chester, Ill.; Chas. Knob, of Chester; Wm. Ferguson and F. J. Little, of Omaha; and F. E. Hite, of St. Louis.

MINING MACHINERY.—Sonora.—The Black Mountain Mining Co., which controls a large property in the state of Sonora, is seriously considering adding at least 30 stamps to its mill, and, possibly, double that number, as the present 120 stamps cannot keep the cyanide plant supplied to its full capacity. The offices of the company are in the city of New York.

MALT FACTORY AND COLD STORAGE PLANT.—Guadalajara, Jal.—The State Government of Jalisco has granted a concession to the Kentucky Distilling Co., of Guadalajara, for the construction of a malt factory and cold storage plant in that city. It is stipulated that the malt factory must be completed and in operation within eight months. An investment of at least $50,000 is contemplated. Dr. V. H. Hobson, Guadalajara, Jal., is Pres.

BRICK-MAKING MACHINERY.—Mexico City.—At a meeting of the stockholders of the Mixcoac Brick Co., held in the City of Mexico on Sept. 14th, it was decided to increase the capital stock from $250,000 to $450,000, the money to be used in the installation of additional machinery. Angel Alvarez is pres. of the company and the offices are at Capuchines No. II., City of Mexico.

RAILWAY.—Tepehuanes (Durango) to Culiacan (Sinaloa).—Ricardo Orombe has been granted a concession for the construction of a railroad, either broad or narrow gage, between Tepehuanes and Culiacan. Surveys must commence within six months, and 30 kilometers of road be completed one year later, and an additional [illegible] kilometers each succeeding year, so as to complete the whole line within ten years. All materials used in the construction of the road will be admitted free of duty for a term of five years.

IRON WORKS.—Torreon, Coahuila.—The Torreon Iron Works, S. A., has been granted a concession by the state government exempting from taxation, for a period of eight years, the sum of $50,000 which the company will invest in the establishment of a smelter in Torreon. Construction must commence within six months, and be completed within one year from the date of the concession. The company has deposited a forfeit of $1,000 if the terms of the concession are not complied with.

RAILWAY EXTENSION.—City of Mexico.—A contract has been entered into by the Mexican Central Ry. Co., Ltd., with the Mexican Government by which a short line will be built to connect the City of Mexico with Tampico on the Gulf of Mexico. The line will be built from Apulco, the present terminus of a branch of the Mexican Central, to Tamos, a station on the San Luis division of the road. Under the contract referred to, the government will pay a subsidy of $6,500 a kilometer. Fifty kilometers must be completed by June 30, 1908, and the remainder of the line by June 30, 1909. The construction of the extension will involve some of the heaviest work in the history of railroad building on the continent. About 40 tunnels must be built. The road is authorized to use a ferryboat to transport passengers across the Pamico River during the time the line is under construction, but as soon as it is completed a bridge must be built across the river in such a way as not to impede the passage of the largest boats. The government will build a drawbridge at a cost of $1,000,000.

An official report filed with the Mexican Government shows the following lines of the Kansas City, Mexico and Orient Ry. completed and in operation: West of Chihuahua, 200 miles; east of Chihuahua, 60 miles; east of Topolobampo, 75 miles, making 335 miles in all. The line running east from Topolobampo is graded for an additional 25 miles. M. P. Paret is Ch. Engr., at Kansas City, Mo.

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CIVIL SERVICE EXAMINATIONS

INSPECTOR SEWER CONSTRUCTION.—New York, N. Y.—The Municipal Civil Service Commission will hold an open competitive examination at 10 a. m., Oct. 11, for Inspector of Sewer Construction. The receipt of applications will close on Sept. 27 at 4 p. m. Candidates should have practical experience in sewer construction, including brick and stone masonry. Vacancies exist in the Boroughs of Brooklyn, The Bronx and Richmond. The compensation is from $3.50 to $4 per day. The minimum age is 21 years. Frank A. Spencer, Secy.

BUILDER, ENGINEERS, ETC.—Manila, P. I.—The U. S. Civil Service Commission announces examinations on Oct. 17 to secure eligibles to fill the following named vacancies and similar vacancies as they may occur in the Philippine service: Master Builder, $2,750 per annum; Bridge Engineer, $2,250 per annum; Principal Assistant Chief Engineer, Department of Sewer and Water-Works Construction, Manila, $4,000 per annum; Assistant Engineer, $1,800 per annum; Second Assistant Engineer, $1,800 per annum. Applicants must state fully and clearly in their applications what experience they have had which would qualify them for the position sought. Applicants for the position of Principal Assistant Chief Engineer, Department of Sewer and Water-Works Construction, City of Manila, must indicate in their applications that they have had experience in water-works design and construction; applicants for the position of Assistant Engineer must indicate in their applications that they have had experience in water and sewer construction; and applicants for the position of Second Assistant Engineer must indicate in their applications that they have had experience in design of steel and concrete bridges. Age limit, 18 to 40 years on the date of examination. Application Forms 2 and 375.

JUNIOR CIVIL ENGINEER.—Manila, P. I.—The U. S Civil Service Commission announces an examination on Oct. 17 18 to secure eligibles to fill a vacancy in the position of Junior Civil Engineer, $1,600 per annum, Engineer Department at Large, Manila, P. I., and similar vacancies as they may occur in the departmental service. Attention is invited to the fact that while the specific vacancy mentioned is in the Philippines, the position is not in the Philippine service, but under control of the War Department. No applicant who has not had at least five years' good experience in civil engineering work will be admitted to the examination. Graduation in civil engineering from any reputable technical school will be considered equivalent to 3½ years of this period. Students of civil engineering about to graduate or just graduated, and others who have filled minor positions, such as chainmen, rodmen, levelmen, etc., and who have not received a suitable technical training, are advised to apply for subordinate positions under the Engineer Department in their locality. Age limit, 20 years or over on the date of the examination. Application Form No. 1312.

CONTRACT PRICES.

SEWERS.—Junction City, Kan.—Bids were received on Sept. 4, as follows, for construction of sewers. The bidders were: (A) R. J. Boyd Construction Co., Kansas City, Mo.; (B) Municipal Construction Co., Kansas City, Mo.; (C) Hanley & Ritchie, Topeka, Kan.; (D) Ratcliffe-Gibson Construction Co., St. Joseph, Mo.; (E) American Light & Water Co., Kansas City; (F) Davis & Heuser, Hutchinson, Kan.; (G) W. W. COOK & SON, Junction City; (H) McQuatters Plumbing & Machine Co., Hillsboro, Tex. Burns & McDonnell, 700-70 Dwight Bldg., Kansas City, Mo., Engrs. Bids in detail were as follows:

BIDS RECEIVED AT JUNCTION CITY, KAN., ON SEPT 4 FOR CONSTRUCTION OF SEWERS.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
City District	$30,150.00	$32,500.00	$29,780.20	$30,750.00	$33,681.17	$32,255.00	$28,895.60	$31,000.00
District No. 1	18,150.00	19,500.00	17,991.10	18,015.00	20,888.12	19,182.00	17,803.34	18,000.00
District No. 2	5,100.00	5,500.00	4,910.30	5,330.00	5,705.79	5,697.00	4,747.68	5,000.00
District No. 3	5,850.00	6,500.00	5,712.61	6,275.00	6,411.38	6,296.00	5,733.09	6,500.00
District No. 4	4,800.00	5,000.00	4,975.00	4,725.00	5,268.46	4,990.00	4,920.74	5,000.00
District No. 5	13,000.00	13,500.00	12,500.00	12,750.00	14,283.15	13,472.00	12,819.15	12,500.00
Excavation under 8 ft.	.50	.55	.48	.50	.50	.65	.46	.52
Excavation under 8 ft to 12 ft.	.71	.80	.67	.80	.75	.95	.68	.78
Excavation 12 ft. to 16 ft.	1.00	1.20	.95	1.30	1.40	1.30	.98	1.30
8-in. pipe	.26	.33	.25	.28	.30	.33	.26	.31
10-in. pipe	.34	.42	.34	.35	.40	.42	.33	.40
12-in. pipe	.40	.53	.42	.42	.50	.50	.395	.48
15-in. pipe	.55	.70	.55	.60	.70	.78	.55	.62
6 x 8 Ys	.50	.69	.50	.50	.70	.55	.45	.53
6 x 10 Ys	.81	.91	.80	.80	.90	.80	.75	.85
6 x 12 Ys	.95	1.11	.96	1.00	1.12	1.20	.90	1.00
Manholes	....	43.00	40.00	40.00	48.00	47.50	36.50	43.00
Flush tanks	75.00	80.00	80.00	70.00	85.00	78.00	67.50	78.00
Lamp holes	10.00	12.00	9.00	10.00	12.00	8.50	8.50	11.00
Rock	3.00	3.25	3.10	3.00	3.50	3.25	2.80	3.00
Extra for brick	1,500.00	None	1,900.00	2,100.00	2,800.00	2,000.00	1,440.00	1,750.00
Lump sum bid	$77,050.00	$82,500.00	$75,869.21	$77,845.00	$86,238.07	$81,886.00	$74,919.60	$78,000.00

*SEWER.—South Omaha, Neb.—Bids were received, as follows, on Sept. 4 by Andrew Rosewater, City Engr., Omaha, for constructing the South Omaha relief main sewer from Jones and Sixth Sts. to Pacific and 16th St. In detail the bids were as follows; (a) J. B. Katz; (b) Chas. Thompson; (c) R. L. Kenny & Co.; (d) J. O. Corby; (e) Jas. Jensen; (f) Jas. Jensen:

BIDS RECEIVED ON SEPT. 4 FOR SEWER AT SOUTH OMAHA, NEB.

	(a)	(b)	(c)	(d)	(e)	(f)
1,000 cu. yds. Ex. grading	$0.20	$0.40	$0.25	$0.35	$0.25	$0.25
10,000 ft. pine lumber, per B. M	35.00	40.00	26.00	28.00	26.00	26.00
1,000 ft. oak piling	.40	.50	.35	.35	.35	.35
200 cu. yds. Ex. broken stone	2.25	2.25	2.25	2.50	2.60	2.60
200 cu. yds. Ex. sand	1.00	1.00	.90	1.00	1.25	1.25
100 cu. yds. Ex. gravel	1.00	2.25	1.50	1.50	2.50	2.50
Junction at 7th and Jonas	1009.09	1,500.00	750.00	800.00	1,025.00	1,025.00
100 cu. yds. Ex. concrete	7.00	9.00	6.50	7.00	6.00	6.00
800 ft. 12-in. inlet pipe	.75	1.20	.60	.70	.68	.68
5,150 lbs. cast iron	.04	.04	.03	.03	.03	.03
9 catch basins reconnected	5.00	15.00	1.50	3.00	5.00	5.00
25 cu. yds. concrete for re-in	......	......	......	......	......	9.00
25 cu. yds. brick for re-in	8.00	9.00	6.75	7.00	9.00	9.00
10 curb inlets	20.00	10.00	19.00	20.00	19.00	19.00
10 catch basins	20.00	15.00	16.50	20.00	18.50	18.50
150 ft. manholes, concrete	......	......	......	......	......	3.00
150 ft. manholes, brick	3.00	5.00	3.10	3.00	3.00	......
810 ft. 7-ft. concrete	......	......	......	......	......	12.85
810 ft. 7-ft. brick	12.99	14.00	12.50	13.34	13.10	......
3,718 ft. 7-ft. 6-in. concrete	......	......	......	......	......	14.97
3,718 ft. 7-ft. 6-in. brick	14.58	15.00	14.49	15.25	15.19	......
Totals	$69,040	$74,211	$68,676	$72,601	$72,386	$71,365

INDUSTRIAL NOTES.

THE RUST BOILER COMPANY, of Pittsburg, Pa., has secured the order for the boilers for the United States Steel Corporation's new plant at Gary, Ind., the order being for sixteen 400 HP. Rust Water Tube boilers.

THE SANDUSKY PORTLAND CEMENT CO. report that the Medusa Waterproof compound it is making is being used by the Curtin-Ruggles Co., of New York, in 200,000 sq. ft. of cement roofing for the Orford Copper Co., at Bayonne, N. J.

THE GOLDEN-ANDERSON VALVE SPECIALTY COMPANY informs us that it has opened a New York office at 136 Liberty St., with Mr. N. R. Marvin in charge, where steam users of the east may avail themselves of the opportunity to purchase from an excellent line of goods.

BUELL & MITCHELL, 120 Liberty St., New York, N. Y., have been appointed New York representatives for the Scaife water filters, manufactured by Wm. B. Scaife & Sons Co., Pittsburg, Pa. A large display room will be maintained, showing the various styles and sizes of filters in actual operation.

KYLE & DUGAN, 282 East Broad St., Columbus, O., is the name of the new firm recently formed for handling all kinds of contractors' supplies and building materials. Mr. Robert C. Kyle is President of the International Fence & Fireproofing Co., and Mr. Walter L. Dugan is Chief Engineer of the same company.

THE H. W. JOHNS-MANVILLE CO. announces that the reports of the small fire at its Brooklyn plant on Aug. 30 were very much exaggerated in the newspapers, and that the damages were very small. The fire did not in any way interfere with business, and the department affected was in operation by noon the following day.

W. S. BARSTOW & COMPANY have recently completed an extensive electrolytic survey for the Chester Traction Company, Chester, Pa., and the Trenton Street Railway Company, Trenton, N. J. Under their direction several modifications have been made which bring the track return systems of these two companies up to date.

THE ATLAS ENGINE COMPANY has secured the services of J. P. Johnston as Sales Manager of its Water Tube Boiler Department. Mr. Johnston was for many years with the Weber Steel Concrete Chimney Company. About November 1, the Atlas Company will occupy extensive office suites in the new Fisher Building, Chicago.

THE TRAYLOR ENGINEERING COMPANY has entered into a contract whereby Shirley and Grant, of Reno, Nevada, become its exclusive representatives for the State of Nevada, for the sale of its machinery for mining, sampling, rock and ore crushing, milling, cyaniding, amalgamating, smelting, refining, fuel briquetting and cement making. A close relationship has been established under which the two firms will cooperate in designing and building entire plants, as well as in the sale of individual prices of machinery. Shirley and Grant are well known in the Nevada territory, both as a firm and as individuals, and they have many friends among the mining fraternity.

THE CANADIAN WESTINGHOUSE CO. has been awarded a contract by the Montreal Light, Heat & Power Co. for a large steam turbine and generator unit for use in connection with the lighting and power system in Montreal. This unit will have a capacity of 2,000 HP., and will be of the Westinghouse-Parsons type. It is practically a duplicate of the unit installed by the Ottawa Electric Co. for a similar purpose. This will be the ninth turbine of this type to be installed in Canada at various points between Montreal and Dawson City, and the order is indicative of the consideration which this type of prime mover is receiving throughout Canada.

THE BUFFALO FORGE COMPANY recently closed a large contract with the Bethlehem Steel Co. for the forced draft equipment consisting of six fans and engines (direct connected) to drive the same. There is included in the contract provision for complete accessories in the line of dampers, speed regulating valves, piping, ducts, etc. They report the contract as secured, solely on the engineering merits of the apparatus offered.

THE PACIFIC ENGINEERING COMPANY has negotiated and closed contract with the Northwestern Improvement Co. for the following equipment: Two 150-HP. Aultman & Taylor water tube boilers, one duplex Corliss valve gear, first motion; steam mine hoists, cylinders 20 × 60 ins.; two large electric mine hoists driven by induction motors. It also closed contract with the same company for a complete coal washing and conveying plant for mines at Melmont and Roslyn.

THE BESSEMER CONTRACTING AND BALLAST COMPANY, McKeesport, Pa., informs us that it will soon begin the manufacture of a concrete railroad cross and switch tie which can be spiked the same as a wood tie. Other products will be slag concrete fence posts and shingles which will take the place of wood, and in the case of the shingle will be 100% lighter than slate. The plant will be equipped for the manufacture of brick, building blocks and sewer pipe.

THE KILBURNE AND CLARK COMPANY of Seattle, Washington, has recently placed a large order with the Electric Cable Company of New York for the Voltax liquid compound to be used as a waterproof paint for the protection of railway bridges which this company has in course of construction on the Pacific coast. This material has given excellent results when used for this purpose, as it has proven impervious to atmospheric conditions, prevents electrolytic action and protects the metal from corrosion.

A RECORD-BREAKING ORDER for tube mills for grinding Portland cement clinker has just been booked by the Power & Mining Machinery Co., of Cudahy, Wis. The order was placed by the United States Steel Corporation, and calls for 47 tube mills, 5 ft. in diameter by 22 ft. in length. Twenty of these are to be installed in the plant of the Carnegie Steel Co., at Homestead, Pa., and 27 are for an extension to the immense modern cement plant of the Illinois Steel Co., at Buffington, Ind. In addition to this order the Power & Mining Machinery Co. has also booked an order for 14 tube mills, 5 ft. by 22 ft., and a complete crushing plant, consisting of large and small crushers and rotary screens, for the new plant of the Sandusky Portland Cement Co., at Dixon, Illinois.

THE B. F. STURTEVANT COMPANY reports the following as a partial list of recent sale: Enclosed engines with forced lubrication and watershed partition to the Jeanesville Iron Works Co., Hazelton, Pa.; Mutual Wheel Co., Moline, Ill.; Rand-Avery Supply Co., Boston, Mass.; Wood Worsted Mills, Lawrence, Mass.; W. W. Gleckner & Sons Co., Canton, Pa.; MacArthur Bros. Co., Glen Lyn, Pa.; Thomas & Smith, Chicago, Ill. Forge exhaust and blast apparatus is being installed by the Morse Twist Drill & Machine Co., New Bedford, Mass.; Brown & Sharpe Mfg. Co., Providence, R. I.; Providence Technical High School, Providence, R. I.; C. B. Hutchinson, Lyndonville, Vt.; Lynn Manual Training School, Lynn, Mass. The boiler room equipment of the Kansas City Portland Cement Co., Independence, Mo., will include two standard economizers and an induced draft apparatus consisting of two steel plate fans with direct-connected engines and the heating and ventilating apparatus for the large department store of the Knott Dry Goods Co., Nashville, Tenn., is to be furnished by the above firm.

THE FISHER HYDRAULIC STONE & MACHINERY CO., of Baltimore, Md., reports a visit recently from Mr. A. O. Leighton, of Belfast, Ireland, who came to this country, representing one of the largest firms of general contractors in the United Kingdom, for the sole purpose of investigating the Fisher hydraulic power machinery, examining the quality of the stone produced and seeing some of the buildings erected of it in Baltimore. Mr. Leighton took back for the approval and signature of his firm contracts involving the purchase of a large equipment of this machinery. As his report will undoubtedly be favorable, a Fisher plant will probably be in full operation in Belfast within the next few months. The sale of this machinery will mark the opening up of the business of this company in Great Britain, and they expect to do a large business there. Among other recent sales of plants the following is a partial list: The Spokane Hydraulic Press Stone Co., Spokane, Wash.; The Southern Hydraulic Stone & Machinery Co., Galveston, Tex., and G. R. Marrow and associates, of Highspire, Pa.

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TRADE PUBLICATIONS.

ELECTRIC PAD.—H. W. Johns-Manville Co., 100 William St., New York City.

This pamphlet describes the "electrotherm," a substitute for the hot water bottle.

PULLEYS.—Geo. V. Cresson Co., Philadelphia, Pa. Paper; 6 × 9¼ ins.; pp. 70; illustrated.

This is a general catalogue and price-list of all kinds of cast-iron pulleys, fly-wheels, keys, etc.

FIRE BRICK FOR ROTARY KILNS.—Laclede Fire Brick Mfg. Co., St. Louis, Mo. Paper; 6 × 9 ins.; pp. 5; illustrated.

Bauxite blocks are discussed in this pamphlet and a comparison of cost between these blocks and the ordinary fire brick given.

POWER PUMPS.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 4 × 7½ ins.; pp. 32; illustrated.

This booklet is an advanced catalogue describing a few styles of centrifugal, triplex and duplex pumps manufactured by this company. Sizes, capacities, etc., are given.

NERNST LAMPS.—Nernst Lamp Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 31; illustrated.

"The Lighting of Public Buildings" is the title of this catalogue, which discusses the question of artificial light and the advantages that obtain by the use of the Nernst lamps.

WATER WHEELS.—The Hug Water Wheel Co., Denver, Colo. Paper; 6¼ × 10 ins.; pp. 48; illustrated.

The Hug wheel is of the impact or jet type; and particulars are given of it design and the results of tests. Price lists are given, and several pages are devoted to tables of sizes and speeds of wheels and general hydraulic information. Testimonials are also given.

DRILLING MACHINERY.—The Cyclone Drill Co., Orrville, O. Paper; 6 × 9 ins.; pp. 84; illustrated.

This is a general catalogue of complete machines and parts and lists the apparatus required for boring for oil, water or for prospecting.

IRON PRODUCTION.—Pilling & Crane, Broad and Chestnut Sts., Philadelphia, Pa.; 10 × 8 ins.

This is a chart showing in graphical form the production of iron in the United States since 1830; also the per capita production for the same years.

BRIDGES.—Clinton Bridge & Iron Works, Clinton, Iowa. Paper; 6¼ × 9¼ ins.; pp. 38; illustrated.

This catalogue is entirely illustrative, showing views of many bridges, together with designs for bridges of different spans and style of foundations.

METALLIC PACKING.—C. Lee Cook Mfg. Co., Louisville, Ky. Paper; 6¼ × 3¾ ins.; pp. 33; illustrated.

This booklet is descriptive of Cook's metallic packing for piston rod and valve stem of steam and gas engines and air compressors. It contains a long list of users.

STEAM AND HOT WATER FITTINGS.—James B. Clow & Sons, Chicago, Ill. Paper; 4¼ × 6 ins.; pp. 168; illustrated.

This is a handbook for contractors, containing descriptions and prices of boilers, water heaters, radiators, valves and all kinds of pipe fittings and tools, together with tables of useful information.

BLUE PRINT MACHINES.—J. H. Wagenhorst & Co., Youngstown, Ohio.

This folder illustrates and describes briefly the Wagenhorst electric blue printer. With this machine the tracings are held in place by a roller curtain, which rolls around the cylinder, thus making its manipulation very easy.

FLAMING ARC LAMPS.—Stanley-G. I. Electric Mfg. Co., Pittsfield, Mass. Paper; 3¼ × 6¼ ins.; pp. 4; illustrated.

This circular describes briefly the mechanism of A. E. G. "Brilliant" flame arc lamps of both a. c. and d. c. types for indoor and outdoor service. List prices of these lamps complete are also given.

ELECTRO-MAGNETIC BRAKE.—C. Parodi, 264 Union St., Brooklyn, N. Y. Paper; 5¼ × 8½ ins.; pp. 4; illustrated by six separate plates.

A graduated braking pressure is secured by the electro-magnetic brake described in this circular. Illustrations clearly show the location of the apparatus under the car body and the general method of operation.

BOILERS.—E. Keeler Co., Williamsport, Pa. Paper; 9 × 6 ins.; pp. 48; illustrated.

The Keeler boilers described in this pamphlet are high-pressure tubular, tubular with full flush or half arch front, open bottom portable, water bottom portable, vertical tubular, marine internal furnace and submerged tube vertical marine. Specifications of each type are given, also of their settings. The Ajax, Tupper and Competition grates are also described.

WOOD BLOCK PAVEMENTS.—W. S. Wood Preserving Co., 29 Broadway, New York City. Paper; 8 × 6 ins.; pp. 22; illustrated.

The booklet gives a short history of the wood block pavements in New York City, but is largely composed of views of the streets laid with this pavement.

GATES.—The Climax Stock Guard Co., 503 Title & Trust Bldg., Chicago, Ill. Three leaflets. Paper; 6 × 7 ins.; illustrated.

These leaflets illustrate and describe several styles of gates for farms and railroad crossings. They are made of barb wire or wire mesh stretched on frames of wood or of steel tubing, and are light but strong.

METAL CEILINGS.—The Berger Mfg. Co., Canton, Ohio. Catalogue 7A. Paper; 9 × 12 ins.; pp. 32; illustrated.

Illustrations of the different styles of ceilings, side walls, wainscoting and chain rails manufactured by the company take up the greater part of the publication. Directions for ordering this metal work are given.

HYDRAULIC TOOLS.—The Watson-Stillman Co., New York City. Catalogue No. 69. Paper; 6 × 9 ins.; pp. 126; illustrated.

The tools described include hydraulic jacks, punches, rail benders, etc., for use on railroads. Considerable space is devoted to directions for operating these tools, and price lists of the complete tools or parts are given.

MILLING MACHINES.—Newton Machine Tool Works, 24th and Vine Sts., Philadelphia, Pa. Catalogue No. 44. Paper; 6 × 9 ins.; illustrated.

These machines are designed for milling keyseats and other work required the ends of shafts to be rounded up. General dimensions of the different styles of machines are given.

ROLLER FLOUR MILL FEEDER.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1,204. Paper; 8 × 10½ ins.; pp. 4; illustrated.

The Gerard roller feeders are briefly described. These feeders are intended to take the place of ordinary shaker-feeders, but are not subject to the vibration and noise of the latter type.

RIVETED STEEL PIPE.—Tallerday Mfg. Co., Los Angeles, Cal. Catalogue No. 14. Paper; 6¾ × 10¼ ins.; pp. 55; illustrated.

Besides listing the prices of the different sizes of pipe manufactured by this company, the catalogue contains price lists of pipe fittings, galvanized iron tanks, etc. The handling and laying of riveted water pipe is also discussed.

REFRIGERATING MACHINERY.—Atlas Co., Ltd., Hopetown House, 5 Lloyds Ave., London. Paper; 6¼ × 9¼ ins.; pp. 40; illustrated.

The book notes the different methods of cooling brine, water and air, and the three systems of making ice, viz., plate, can and cell systems. Tables giving the size of the different machines are also given.

CONCRETE MIXER.—Colorado Concrete Mixer Co., 1814 Arapahoe St., Denver, Colo. Paper; 4 × 6¼ ins.; pp. 10; illustrated.

The Colorado mixer is of the drum type, revolving on a horizontal axis and driven by a sprocket chain from an engine. The construction of the machine is described, together with the special advantages claimed for it.

GAS-ELECTRIC RAILWAY CARS.—Wm. B. Strang, 15 Wall St., New York City. Paper, 8 × 10 ins.; pp. 5; illustrated.

The Strang gas-electric railway car system is explained in this pamphlet, and the run from Philadelphia to Kansas City made by the experimental car "Ogerita" is described. After running 18,000 miles without costing a cent for repairs, this car has been placed in regular service on the Missouri & Kansas Interurban Ry.

IMPELLER PUMP FOR WELLS.—Roth Mfg. Co., Columbus, Ind. Paper; 5 × 6½ ins.; pp. 38; illustrated.

This pamphlet contains a description of the Columbus impeller pump, which is inserted in a tube well and driven by a belt pulley or electric motor mounted on the top of the vertical shaft. They are used principally for irrigation work, and for wells at industrial plants, but some are in use at water-works plants.

REINFORCED-CONCRETE FLOOR.—The Hinchman-Renton Fireproofing Co., 1815 Arapahoe St., Denver, Colo. Paper; 5 × 6½ ins.; pp. 4; illustrated.

This relates to a test made by the Building Inspector of Denver on a 4-in. concrete floor slab reinforced by strands of No. 10 twisted barbed wire. The panel was 5½ × 18 ft. loaded with brick to 475 lbs. per sq. ft., and then subjected to a fire test. There was no deflection and no sign of failure.

ELECTRICAL APPARATUS.—Fort Wayne Electric Works, Fort Wayne, Ind. Two bulletins, one insert. Paper, 8 × 10½ ins.; 4¼ × 6¾ ins.; illustrated.

Bulletin No. 1080, superseding No. 1058, describes engine-driven multiphase, revolving field generators.

Bulletin No. 1081, superseding No. 1067, is devoted to type A transformers.

An insert for catalogue No. 2004, replacing page 73, gives parts with list prices of wood, form 1, arc regulators.

LARGE STEAM AND ELECTRIC LOCOMOTIVES.—American Locomotive Co., New York, N. Y. Paper; 9 × 6 ins.; pp. 28; illustrated.

This is a reprint of a paper read before the New York Railway Club by Mr. J. E. Muhlfeld, General Superintendent of Motive Power of the Baltimore & Ohio Ry., comparing the efficiency, cost of service, etc., of the Mallet duplex 167-ton articulated locomotive and the electric locomotives which haul trains through the Baltimore tunnel.

EXPANDED METAL SUPPORTS.—The Berger Manufacturing Co., Canton, O. Paper; 9 × 12 ins.; pp. 32; illustrated.

The prong lock system of steel studding and furring for fireproof walls, partitions and ceilings, is described in this pamphlet. The prongs are set about four inches apart; no wire is used. The various studs, strips, furring, etc., containing the studs are the subject of numerous illustrations. Methods of construction and buildings equipped with the prong lock system are also illustrated.

CONCRETE MIXERS.—International F. & Fireproofing Co., Columbus, Ohio. Paper; 7¼ × 5½ ins.; pp. 20; illustrated.

The American concrete mixer is of the batch type, having a heavy mixing drum with but one opening. Through the center of the drum extends a steel shaft to which the plow arms are keyed; these plow arms carry the steel blades that do the mixing. The apparatus may be charged or discharged while running at full speed. A table in the pamphlet gives sizes, capacities and weights of the mixers.

GRAPHITE PAINTS.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 9¾ × 7¾ ins.; pp. 24; illustrated.

This catalogue contains reports of the effect of fire on steelwork of the buildings in the San Francisco conflagration painted with Dixon's silicia graphite paint. Half of the catalogue is devoted to cuts showing the condition of these buildings after the fire.

WOOD-PRESERVATION.—Carbolineum Wood Preserving Co. of New York, 349 West Broadway, New York. Paper; 6 × 9 ins.; pp. 8; illustrated.

This pamphlet contains valuable data on wood-preservation by the use of the compound sold under the name of Avenarius Carbolineum, the data given being of special interest to the paper-mill trade.

STAMP MILLING MACHINERY.—Traylor Engineering Co., New York City. Catalogue I. Paper; 6¾ × 9¼ ins.; pp. 55; illustrated.

The book contains a brief description of the stamp mills, mortars, ore feeders, crushers, settlers, agitators, retorts, etc., manufactured by this company. Several line cuts of typical stamp-mill plants are also given.

GAS PRODUCER.—The Amsler Engineering Co., Pittsburg, Pa. Paper; 6½ × 8 ins.; pp. 19; illustrated.

A comparison is given between the efficiency of producer gas engines and steam engines, together with a description of the way in which producer gas is obtained. This is followed by a description of the Amsler gas producer and its operation.

MINING MACHINERY.—Power & Mining Machinery Co., Cudahy, Wis. Catalogue No. 6. Paper; 6 × 9 ins.; pp. 156; illustrated.

The catalogue describes briefly the company's standard makes of washing, smelting and refining machinery for recovering precious metals, including crushers, washing machinery, smelters, forehearths, converters, etc., etc.

CEMENT WATERPROOFING.—The Waterproofing Co., 151 W. 128th St., New York City. Paper; 3¼ × 6¼ ins.; pp. 16; illustrated.

Hydrolithic waterproof cement, according to the Winslow system, is applied to a depth of ⅝-in. upon the inner surface of brick, stone or concrete walls; floor coatings 1 in. in thickness are also made of the same material. The advantages of this system are explained in this booklet and tables showing hydrostatic pressure are provided.

ROCK AND ORE BREAKERS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1416. Paper; 8 × 10½ ins.; pp. 28; illustrated.

This bulletin, which supersedes No. 1416, is devoted to the Gates gyratory rock and ore breaker, style K. The machine is described and illustrated in detail; tables give dimensions, capacities, etc., and show the general dimensions of foundations; a list of parts numbered to correspond to an illustration is provided; and directions are given for ordering complete machines or repairs.

COAL-MINING MACHINERY.—Sullivan Machinery Co., Chicago, Ill. Catalogue No. 57. Paper; 6 × 9 ins.; pp. 55; illustrated.

This pamphlet, which is entitled "Modern Methods of Producing Coal, Part I.," is especially devoted to the Sullivan pick machine. Some facts and figures are offered, showing the advantage of machine as compared with hand mining, including tables of statistics on coal production in the United States. The Sullivan pick machine is described in detail in this pamphlet and other coal mining machinery manufactured by the company is illustrated.

HIGH-PRESSURE VALVES AND PIPE FITTINGS.—The Crane Co., Chicago, Ill. Cloth; 11½ × 14½ ins.; pp. 389; illustrated.

This elaborate and handsomely printed publication is not a general catalogue, but a special catalogue of piping equipment for high-pressure power plants. A large proportion of the space is devoted to valves of various types for different purposes, together with tables of dimensions and weights. Pipe fittings, flanges, gaskets and similar details are also dealt with very fully, and there is an entire section devoted to pipe: wrought-iron and brass pipe, cast-iron flanged pipe, spiral and straight seam riveted pipe, and wrought-iron pipe bends. The special appliances include steam and oil separators, traps, exhaust pipe heads, feed pumps, hot water meters, pressure regulators, gages, etc. There are also some interesting balanced and unbalanced expansion joints for use as high-pressure steam mains.

REINFORCED CONCRETE.—Columbian Reinforced Concrete Co., 26 West 26th St., New York City. Paper; 5½ × 10 ins.; pp. 50; illustrated.

This catalogue describes the different Columbian systems of construction, their advantages, etc., and then gives the specifications for these systems. A partial list of buildings in which this system was used is appended.

PORTABLE PUMPS.—Carlin Machinery & Supply Co., Allegheny, Pa. Paper; 6 × 9 ins.; pp. 4; illustrated.

The pumping outfit described in this leaflet consists of a Loud patent diaphragm pump, the power for which is supplied by a 2-HP. horizontal, 4-cycle gasoline engine; the engine and the pump, together with a small water tank, are mounted on a hand truck.

CONCRETE.—Vulcanite Portland Cement Co., Flatiron Bldg., New York City. Pamphlet No. 6; paper; 6 × 9 ins.; pp. 24; illustrated.

This is a paper on "Economical Selection and Proportion of Aggregates for Concrete," by Albert Moyer, Assoc. M. Am. Soc. C. E. It takes up the questions of selecting materials, their mixing, the proper proportions of aggregates, etc.

STEAM ENGINES.—Atlas Engine Works, Indianapolis, Ind. Bulletin No. 132. Paper; 8 × 10¼ ins.; pp. 16; illustrated.

Medium-speed automatic four-valve engines are described in this bulletin. The question of efficiency is first discussed, and this is followed by a description of this make of engine. Tables giving the principal dimensions of the different sizes of the engine and foundations are appended.

BOLTS AND NUTS.—Association of Licensed Automobile Manufacturers, 7 East 42d St., New York City. Bulletin No. 18. Paper; 8½ × 11 ins.; pp. 30; illustrated.

This bulletin contains a list of the standard sizes of hexagon head screws, castle and plain nuts, adopted by this association. Specifications for the kind of material to be used are given, together with drawings showing the dimensions of all screws and nuts.

COMPOUND ENGINES.—Buffalo Forge Co., Buffalo, N. Y. Paper; 3¼ × 6¼ ins.; pp. 29; illustrated.

This pamphlet is the record of a test, made at Cornell University, of a Buffalo Forge Co.'s class A, 12 and 18 × 10 horizontal tandem compound high-speed engine. The pamphlet is the second of a series to be issued by the company showing tests and affording data relating to its product.

THERMOMETERS.—The Cambridge Scientific Instrument Co., Ltd., Cambridge, England. Catalogue No. 39. Paper; 8½ × 11 ins.; pp. 62; illustrated.

This catalogue contains descriptions of thermometers for all classes of work, as well as pyrometers, galvanometers and testing sets for obtaining temperature readings. The book contains some theory regarding the operation of these instruments, as well as complete price lists.

ELECTRIC SUPPLIES.—Stanley-G. I. Electric Mfg. Co., Pittsfield, Mass. Bulletin No. 618; paper; 6 × 9 ins.; pp. 12; illustrated.

Bulletin 618 supersedes No. 37 and describes types L4 and L14 arc lamps for 100 to 125 volts multiple, direct current. It contains price-list of complete lamp and parts.

Circular No. 795 describes very briefly type A, 60-cycle, single-phase induction motors.

Circular No. 781 lists type F, 2,500-volt, 30-ampere primary fuse-box.

VALVES.—The Kennedy Valve Mfg. Co., Coxsackie, N. Y. Paper; 9 × 5¼ ins.; pp. 130; illustrated.

This catalogue lists standard gate, disc and indicator valves. These valves are made with screw or flange fittings, the larger sizes being made with an iron body and bronze seats. Tables of sizes and dimensions are given, together with line cuts showing cross-sections of the different types of valve. List prices of the different valves are also given.

ELECTRIC LAMPS.—General Electric Co., Schenectady, N. Y. Three bulletins. Paper; 8 × 10½ ins.; illustrated.

Bulletin No. 4,451 describes the new tantalum incandescent lamp. This lamp has an efficiency of two watts per candle and an average life of 700 hours.

Bulletin No. 4,452 is a price list of parts of Forms 10 and 11 direct-current series enclosed arc lamps.

Bulletin No. 4,453 supersedes Bulletin No. 4,434, and describes the Edison "Gem" high efficiency incandescent and meridian units. The bulletin contains several diagrams of the illuminating power of these lamps, together with a comparison with ordinary incandescent units. Price lists of the different sizes of the lamp are also given.

ELECTRIC MOTORS.—General Electric Co., Schenectady, N. Y. Two bulletins. Paper; 8 × 10½ ins.; illustrated.

Bulletin No. 4,454 describes the GE-90 railway motor. This is a 50-HP. motor designed for a normal voltage of 500 volts. The bulletin contains a table giving schedule speed in miles per hour for this motor, together with curves of efficiency, tractive effort and speed. Line cuts giving the general dimensions of these motors conclude the bulletin.

Bulletin No. 4,455 is devoted to describing single-phase induction motors, Type IS, Form KG. These motors are made in sizes of ¼ to 15 HP. for 110 and 220 volts, with a frequency of 60 cycles. The bulletin contains diagrams showing the connections of these motors and general dimensions.

Bulletin No. 7,600 is a [illegible] catalogue for controller contact fingers and handles.

Flyer No. 2,191 describes briefly and gives sizes of Type RS reversing motor starting rheostats.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 114.

GRADING ROADS.

Cape May, N. J.

Sealed bids addressed to the Cape May Real Estate Co. will be received and opened at 12 M., Oct. 6, 1906, for grading 7½ miles of streets. Specifications and information may be had by addressing EDMUND K. BROWN, Resident Engineer. 13-2t

GRADING, SEWERING.

Port Chester, N. Y.

Proposals for the excavation of 77,000 cubic yards of material and the construction of 13,700 lin. feet of sewers and drains, together with manholes, receiving basins and appurtenances, will be received at noon, October 10, 1906, at the office of Willis P. Clark, Secretary of Clark & Parker Realty Company, 46 North Main Street, Port Chester, N. Y. 13-2t

Situations Wanted

ENGINEERING, drafting, designing work wanted for spare time, factories especially. Address "X. B. 13," Engineering News, New York. 13-1t

SITUATIONS OPEN

WANTED.—Instrumentman at Flushing, L. I. Salary, $60.00. Good references required. Address "S. A. 13," Engineering News, New York. 13-1t

WANTED.—A young man, technical graduate, to assist in estimating department of prominent manufacturer of railroad supplies near New York. Opportunity for learning business and rapid advancement; state age, experience, if any, and salary expected. Address "S. A. 12," Engineering News, New York. 13-1t

SUPERINTENDENT for reinforced concrete building construction wanted, by leading company. Permanent position if can give satisfaction under cost plus fixed sum basis. Investment in capital stock essential. Address "Z. B. 13," Engineering News, New York. 13-2t

WANTED.—Immediately, a draftsman. Recent graduate of a Manual Training School preferred. Applicants must state wages expected and when they are able to start work. Address ALSEN'S AMERICAN PORTLAND CEMENT WORKS, Alsen, Greene Co., N. Y. 13-2t

WANTED.—Technical graduate to do both drafting and field work on subway construction work. $60 per month. Apply ROOM 1, 200 Joralemon St., Brooklyn. 13-1t

WANTED.—Two good grading foremen, who understand drag and wheel scraper work. One macadam road foreman. Road work in North Carolina. State reference and wages expected. Address "B. B. 13," Engineering News, New York. 13-1t

Miscellaneous Wants

WANTED TO RENT.—Complete rock crushing and macadam road building plant. Address "A. B. 13," Engineering News, New York. 13-1t

IF you intend ENGAGING RELIABLE ENGINEERING ASSISTANCE we suggest that you insert a notice on our "Want" page under

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The cost is 3 cents a word an insertion. Copy may be left without extra charge at any office in New York of the AMERICAN DISTRICT TELEGRAPH CO., or at the office of

THE ENGINEERING NEWS PUBLISHING CO.